March 13, 2001 Certified Mail #Z 029 878 008

Ms. Jean Ziga
Environmental Coordinator
Halstab Division of Hammond Group, Inc.
1414 Field Street – P.O. Box 6408
Bldg. B
Hammond, Indiana 46325-6408

Re: **AAF089-13797**
Sixth Administrative Amendment to
FESOP 089-5456-00218

Dear Ms. Ziga:

Halstab Division of Hammond Group, Inc. was issued a permit on December 12, 1996 for a Chemical and Allied Products Production Plant. A letter requesting an administrative amendment to their FESOP (Modifications to Stack IDs S-11, S-14, S-15, and S-16) was received on December 18, 2000. Pursuant to the provisions of 326 IAC 2-8-10 the permit is hereby administratively amended as follows:

1. Halstab Division of Hammond Group, Inc. requests approval to modify its Stack IDs S-11, S-14, S-15, and S-16. The modifications are for changes of the maximum design rates and emission factors. There will be no physical changes made to these process units. These stacks were compliance tested on September 22, 1999. During which more accurate maximum design rates and emission factors were obtained than currently listed in the FESOP.

   This change does not require a construction permit because there is no physical changes being made to the process and the allowable emissions will not be increased. This modification qualifies as an administrative amendment in accordance with 326 IAC 2-8-10(a)(6) which allows for revisions to the descriptive information where the revision will not trigger a new applicable requirement or violate a permit term.

   This affects the Potential to Emit (PTE) on page 7 of 27 of the Technical Support Document (TSD) (Non-Confidential Copy) and on page 7 of 27 of the Technical Support Document (TSD) (Confidential Copy). Also affected is Page 1 of the Appendix A: Source Emissions Calculations (Non-Confidential Copy) and pages 1, 13 through 15, and 24 of the Appendix A: Source Emissions Calculations (Confidential Copy).

Proposed Changes:

The following changes were agreed to and made as the Sixth Administrative Amendment for this source (~~strikeout~~ added to show what was deleted and **bold** added to show what was added):

FESOP

1. On page 3 of 66, Table of Contents, Emissions Calculations has been changed to be as follows:

TABLE OF CONTENTS (cont.)

	Total Number of Permit Pages	**66**
	Total Number of Forms	**3**
	Technical Support Document	**27**
	Emissions Calculations	**~~24~~26**

2. On page 55 of 66, under Section D.11, Compliance Monitoring Requirements, Condition D.11.8 Monitoring of Air Pollution Control Equipment Operational Parameters has been modified as follows:

D.11.8 Monitoring of Air Pollution Control Equipment Operational Parameters

That the control equipment shall be operated at all times when its associated facility is in operation. The Permittee shall take daily readings of the total static pressure drop across each baghouse (and HEPA where applicable) when the associated facility is in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the control equipment shall be maintained within the following range(s) in inches of water:

(Stack S-16)
Bag Filter No. 650: 0.1 - ~~5~~**10**
Bag Filter No. 651: 0.1 - ~~5~~**10**
Bag Filter No. 652: 0.1 - 10
HEPA: 0.1 - 10

The Preventive Maintenance Plan for each of control equipment shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with condition C.10 - Pressure Gauge Specifications, be subject to approval by HDEM and IDEM, and shall be zero balanced, at minimum, every six months.

TSD (Public)

1. On page 7 of 27, the Total PTE has been changed to be as follows:

Total PTE

PTE is defined as "the maximum capacity of a stationary source to emit a pollutant under its physical and operational design." [326 IAC 2-7-1(28)]

Pollutant	PTE (tons/year)
PM	~~4,263.663~~ **2,036.925**
PM-10	~~4,263.663~~ **2,036.925**
SO_2	0.038
VOC	0.428
CO	1.317
NO_x	6.353

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

HAP	PTE (tons/year)
Lead (Pb)	~~2,840.822~~ **1,203.406**
TOTAL HAPs	~~2,840.822~~ **1,203.406**

The potential to emit (as defined in the Indiana Rule) of Particulate Matter less than 10 microns in diameter (PM10) is greater than 100 tons per year. Also, the potential to emit (as defined in Indiana Rule) of any single HAP (Lead) is greater than 10 tons/year. Therefore, the source is subject to the provisions of 326 IAC 2-7-1.

2. On page 12 of 27, Compliance Monitoring, 2. has been modified as follows:

Upon installation of HEPA filters, the pressure drop across the control equipment shall be maintained within the following ranges in inches of water:

Control Unit ID	**∆P range (inches of water)**
Stack ID S-16	
Bag Filter No. 650	0.1 - ~~5~~**10**
Bag Filter No. 651	0.1 - ~~5~~**10**
Bag Filter No. 652	0.1 - ~~5~~**10**
HEPA	0.1 - 10

3. On page 19 of 27, within Table 7, Stack/Vent Dimensions, Flow has been modified as follows:

Table 7

Stack/Vent ID:	**S-9, S-10, & S-11**			
Stack/Vent Dimensions:	Ht: 75 ft (each stack)	Dia: 0.6 ft (each stack)	Temp: 70°F (each stack)	Flow: ~~1100~~**864** ACFM (each stack)

4. On page 22 of 27, within Table 10, Stack/Vent Dimensions, Flow has been modified as follows:

Table 10

Stack/Vent ID:	**S-14**			
Stack/Vent Dimensions:	Ht: 75 ft	Dia: 0.6 ft	Temp: 70°F	Flow: ~~1100~~**251** ACFM

5. On page 23 of 27, within Table 11, Stack/Vent Dimensions, Flow has been modified as follows:

Table 11

Stack/Vent ID:	**S-15**			
Stack/Vent Dimensions:	Ht: 75 ft	Dia: 0.6 ft	Temp: 70°F	Flow: ~~1100~~**609** ACFM

6. On page 24 of 27, within Table 12, Stack/Vent Dimensions, Flow has been modified as follows:

Table 12

Stack/Vent ID:	**S-16**			
Stack/Vent Dimensions:	Ht: 75 ft	Dia: 0.8 ft	Temp: 70°F	Flow: ~~1100~~**652** ACFM

Pages 1, 13 through 15, and 24 of Appendix A: Source Emissions Calculations have also been modified.

All other conditions of the permit shall remain unchanged and in effect. Please attach a copy of this amendment and the following revised permit pages to the front of the original permit.

This decision is subject to the Indiana Administrative Orders and Procedures Act - IC 4-21.5-3-5. If you have any questions on this matter, please contact this Department at (219)853-6306.

Sincerely,

Debra Malone, Chief Engineer
Hammond Department of Environmental Management
Air Pollution Control Division

cc: Cheryl Newton, Chief, Program Evaluation Section, U.S.E.P.A., Region V
Mindy Hahn, Permits Administration, IDEM-OAM

DM

ENCLOSURES

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)

HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
- AIR POLLUTION CONTROL DIVISION -

5925 Calumet Avenue
Hammond, Indiana 46320
Phone: (219) 853-6306

Halstab
Division of Hammond Group, Inc.

3100 Michigan Street
Hammond, Indiana 46323

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the facilities listed in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 and contains the conditions and provisions specified in 326 IAC 2-8 and 40 CFR Part 70.6 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments) and IC 13-15 and IC 13-17 (prior to July 1, 1996, IC 13-1-1-4 and IC 13-7-10).

Operation Permit No.: **F089-5456-00218**	
Original Issued By: Ronald L. Novak, Director Hammond Department of Environmental Management	Issuance Date: December 12, 1996

First Significant Permit Modification 089-8516, issued on 8/4/97.
First Administrative Permit Amendment 089-9325, issued on 1/23/98.
Second Administrative Permit Amendment 089-9528, issued on 3/25/98.
Third Administrative Permit Amendment 089-9897, issued on 8/24/98.
Fourth Administrative Permit Amendment 089-10103, issued on 6/25/99.
First Minor Permit Revision 089-11211, issued on 9/29/99.
Fifth Administrative Permit Amendment 089-11459, issued on 11/1/99.

Sixth Administrative Permit Amendment: **089-13797**	Pages Affected: TSD (Public), Pages 7, 12, 19, & 22-24; FESOP, Page 1, 3 & 55; Appendix A calcs. (Public), Page 1; TSD (Confidential), Pages 3, 7, 12, 19 & 22-24; and Appendix A calcs. (Confidential), Pages 1, 13-15 & 24.
Issued by: _____ Ronald L. Novak, Director Hammond Department of Environmental Management	Issuance Date: March 13, 2001

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SECTION A SOURCE SUMMARY

A.1 General Information

The Permittee owns and operates a Chemicals and Allied Products Production Plant.

Responsible Official:	Charles T. Miller, Treasurer/Controller
Source Address:	3100 Michigan Street, Hammond, Indiana 46323
Mailing Address:	5231 Hohman Avenue, P.O. Box 6408, Hammond, Indiana 46325 - 6408
SIC Code:	2819
County Location:	Lake
County Status:	Nonattainment for TSP, PM10, SO2, Ozone.
Source Status:	Synthetic Minor Source, FESOP Program

A.2 Emission Units and Pollution Control Summary

The stationary source consists of the following emission units and pollution control devices:

1) Stack ID S-1

(The process description is confidential. A detailed description is available in the confidential copy of the TSD). Particulate and lead emissions are controlled by a bag filter (No. 121) followed by a HEPA filter.

2) Stack ID S-2

(The process description is confidential. A detailed description is available in the confidential copy of the TSD). Particulate and lead emissions are controlled by a bag filter (No. 115) followed by a HEPA filter.

3) Stack ID S-3

(The process description is confidential. A detailed description is available in the confidential copy of the TSD). There are no emissions controls on this unit.

4) Stack ID S-4

(The process description is confidential. A detailed description is available in the confidential copy of the TSD). Particulate and lead emissions are controlled by a bag filter (No. 204). Halstab has voluntarily proposed to install and operate a HEPA filter to follow the bag filter by the end of 1996.

5) Stack ID S-5

(The process description is confidential. A detailed description is available in the confidential copy of the TSD). Particulate and lead emissions are controlled by a bag filter (No. 226) followed by a HEPA filter.

6) Stack ID S-6

(The process description is confidential. A detailed description is available in the confidential copy of the TSD). Particulate and lead emissions are controlled by a bag filter (No. 209). Halstab has voluntarily proposed to install and operate a HEPA filter to follow the bag filter by the end of 1996.

7) Stack ID S-7

(The process description is confidential. A detailed description is available in the confidential copy of the TSD). Particulate and lead emissions are controlled by a bag filter (No. 236) followed by a HEPA filter.

8) Stack ID S-8

(The process description is confidential. A detailed description is available in the confidential copy of the TSD). Particulate and lead emissions are controlled by a bag filter (No. 247) followed by a HEPA filter.

9) Stack ID S-9

(The process description is confidential. A detailed description is available in the confidential copy of the TSD). Particulate and lead emissions are controlled by a bag filter (No. 317). Halstab has voluntarily proposed to install and operate a HEPA filter to follow the bag filter by the end of 1996.

10) Stack ID S-10

(The process description is confidential. A detailed description is available in the confidential copy of the TSD). Particulate and lead emissions are controlled by a bag filter (No. 318). Halstab has voluntarily proposed to install and operate a HEPA filter to follow the bag filter by the end of 1996.

11) Stack ID S-11

(The process description is confidential. A detailed description is available in the confidential copy of the TSD). Particulate and lead emissions are controlled by a bag filter (No. 319). Halstab has voluntarily proposed to install and operate a HEPA filter to follow the bag filter by the end of 1996.

12) Stack ID S-12

(The process description is confidential. A detailed description is available in the confidential copy of the TSD). Particulate and lead emissions are controlled by a bag filter (No. 506) followed by a HEPA filter.

13) Stack ID S-13

(The process description is confidential. A detailed description is available in the confidential copy of the TSD). Each hopper is equipped with a bag filter (#653, 654, & 655 respectively). Halstab has voluntarily proposed to install and operate a HEPA filter to follow the bag filters by the end of 1996.

14) Stack ID S-14

(The process description is confidential. A detailed description is available in the confidential copy of the TSD). Particulate and lead emissions are controlled by a bag filter (No. 455). Halstab has voluntarily proposed to install and operate a HEPA filter to follow the bag filter by the end of 1996.

15) Stack ID S-15

(The process description is confidential. A detailed description is available in the confidential copy of the TSD). Particulate and lead emissions are controlled by a bag filter (No. 301). Halstab has voluntarily proposed to install and operate a HEPA filter to follow the bag filter by the end of 1996.

16) Stack ID S-16

(The process description is confidential. A detailed description is available in the confidential copy of the TSD). Each hopper is equipped with a bag filter (No. 650, 651, & 652 respectively). Halstab has voluntarily proposed to install and operate a HEPA filter to follow the bag filters by the end of 1996.

17) Stack ID S-17

(The process description is confidential. A detailed description is available in the confidential copy of the TSD). The bulk hopper (#390) is equipped with a bag filter (#392) and the two bag hoppers (#360 & 361) share a bag filter (#364). The surge hopper is equipped with a bag filter (#911). The three filters then vent to another bag filter (#430) followed by a HEPA filter.

18) Stack ID S-18

(The process description is confidential. A detailed description is available in the confidential copy of the TSD). There are no control equipment associated with this unit.

19) Stack ID S-19

(The process description is confidential. A detailed description is available in the confidential copy of the TSD). There are no control equipment associated with this unit.

20) Stack ID S-21

(The process description is confidential. A detailed description is available in the confidential copy of the TSD). Particulate and lead emissions are controlled by a HEPA filter.

A.3 Insignificant Activities

This stationary source also includes the following insignificant activities, as defined in 326 IAC 2-7-1(20):

1) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour.

2) Propane or liquefied petroleum gas, or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) Btu per hour.

3) Combustion source flame safety purging on startup.

4) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons.

5) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.

6) Application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings.

7) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.

8) Cleaners and solvents characterized as follows:

A) having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38 degrees C (100 °F) or;

B) having a vapor pressure equal to or less than 0.7 kPa; 5 mm Hg; or 0.1 psi measured at 20 °C (68 °F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.

9) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.

10) Closed loop heating and cooling systems.

11) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1 % by volume.

12) Any operation using aqueous solutions containing less than 1 % by weight of VOCs excluding HAPs.

13) Water based adhesives that are less than or equal to 5% by volume of VOCs excluding HAPs.

14) Replacement or repair of bags or baghouses and filters in other air filtration equipment.

15) Heat exchanger cleaning and repair.

16) Process vessel degassing and cleaning to prepare for internal repairs.

17) Paved and unpaved roads and packing lots with public access.

18) Purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.

19) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.

20) Blowdown for any of the following: sight glass; boilers; compressors; pumps; and cooling tower.

21) On-site fire and emergency response training approved by the department.

22) Purge double block and bleed valves.

23) Filter or coalescer media changeout.

24) A laboratory as defined in 326 IAC 2-7-1(20)(C).

A.4 FESOP Applicability [326 IAC 2-8-2]

This stationary source, otherwise required to have a Part 70 permit as described in 326 IAC 2-7-2(a), has applied to the Hammond Department of Environmental Management and the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM) for a Federally Enforceable State Operating Permit (FESOP).

SECTION B GENERAL CONDITIONS

B.1 General Requirements [IC 13-15] [IC 13-17] (Prior to July 1, 1996: IC 13-7 and IC 13-1-1)
The permittee shall comply with the provisions of IC 13-15 (Permits Generally), IC 13-17 (Air Pollution Control) and the rules promulgated thereunder.

B.2 Definitions [326 IAC 2-8-1]
Terms in this permit shall have the meaning assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, any applicable definitions found in IC 13-11 (prior to July 1, 1996, IC 13-7-2, IC 13-1-1-2), 326 IAC 1-2, and 326 IAC 2-7 shall prevail.

B.3 Permit Term [326 IAC 2-8-4(2)]
This permit is issued for a fixed term of five (5) years from the effective date, as determined in accordance with IC 4-21.5-3-5(f) and IC 13-5-5-3 (prior to July 1, 1996, IC 13-7-10-2.5), of the permit.

B.4 Enforceability [326 IAC 2-8-6]
(a) All terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by HDEM and IDEM.

(b) Unless otherwise stated, terms and conditions of this permit, including any provisions to limit the source's potential to emit, are enforceable by the United States Environmental Protection Agency (U.S. EPA) and citizens under the Clean Air Act.

B.5 Termination of Right to Operate [326 IAC 2-8-9]
The expiration of this permit terminates the Permittee's right to operate unless a timely and complete renewal application has been submitted consistent with 326 IAC 2-8-3(h) and 326 IAC 2-8-7.

B.6 Severability [326 IAC 2-8-4(4)]
(a) The provisions of this permit are severable, and if any provisions of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

(b) Indiana rules from 326 IAC quoted in conditions in this permit are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard.

B.7 Property Rights or Exclusive Privilege [326 IAC 2-8-4(5)(D)]
This permit does not convey any property rights of any sort or any exclusive privilege.

B.8 Duty to Supplement and Provide Information [326 IAC 2-8-3(f)] [326 IAC 2-8-4(5)(E)]
(a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Hammond Department of Environmental Management
5925 Calumet Avenue
Hammond, Indiana 46320

and to:

Indiana Department of Environmental Management,
Permits Branch, Office of Air Management,
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

(b) The Permittee shall also provide additional information as requested by HDEM or IDEM - OAM, to determine the compliance status of the source in accordance with 326 IAC 2-8-5(a).

(c) The Permittee shall furnish to HDEM and IDEM-OAM, within a reasonable time, any information that the HDEM or IDEM-OAM may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.

(d) Upon written request, the Permittee shall also furnish to HDEM and IDEM - OAM, copies of records required to be kept by this permit. For information claimed to be confidential, the Permittee shall furnish such records directly to the U.S. EPA, IDEM - OAM, and HDEM along with a claim of confidentiality.

Such confidentiality claims shall meet the requirements of 40 CFR Part 2, Subpart B (when submitting to U.S. EPA) and 326 IAC 17 (when submitting to IDEM - OAM and HDEM).

B.9 Compliance Order Issuance [326 IAC 2-8-5(b)]
IDEM - OAM and HDEM may issue a compliance order to this Permittee upon discovery that this permit is in nonconformance with an applicable requirement. The order may require immediate compliance or contain a schedule for expeditious compliance with the applicable requirement.

B.10 Compliance with Permit Conditions [326 IAC 2-8-4(5)(A)] [326 IAC 2-8-4(5)(B)]
(a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit is grounds for:

(1) enforcement action;

(2) permit termination, revocation and reissuance or modification; and

(3) denial of a permit renewal application.

(b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

B.11 Certification [326 IAC 2-8-3(d)] [326 IAC 2-8-4(3)(C)(i)]
Any application form, report, or compliance certification submitted under this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification and any other certification required under this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

A responsible official is defined at 326 IAC 2-7-1(33).

B.12 Annual Compliance Certification [326 IAC 2-8-5(a)(1)]

(a) The Permittee shall annually certify that the source has complied with the terms and conditions contained in this permit, including emission limitations, standards, and work practices. The certification shall be submitted by April 15 to:

Hammond Department of Environmental Management
5925 Calumet Avenue
Hammond, Indiana 46320

and to:

Indiana Department of Environmental Management,
Compliance Data Section, Office of Air Management,
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and to:

U.S. Environmental Protection Agency (EPA), Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

(b) This annual compliance certification report required by this permit shall be timely if:

(1) Delivered by U.S. mail and postmarked on or before the date it is due; or

(2) Delivered by any other method if it is received and stamped by HDEM and IDEM - OAM, on or before the date it is due.

(c) The annual compliance certification report shall include the following:

(1) The identification of each term and condition of this permit that is the basis of the certification;

(2) The compliance status;

(3) Whether compliance was continuous or intermittent;

(4) The methods used for determining the compliance status of the source, currently and over the reporting period; and

(5) Such other facts as HDEM and IDEM - OAM, may require to determine the compliance status of the source.

B.13 Preventive Maintenance Plan [326 IAC 2-8-4(9)] [326 IAC 1-6-3]

(a) The Permittee shall prepare, maintain and implement Preventive Maintenance Plans as necessary including the following information on each:

(1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;

(2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions;

(3) Corrective actions that will be implemented in the event an inspection indicates an out of specification situation;

(4) A time schedule for taking such corrective actions including a schedule for devising additional corrective actions for situations that may not have been predicted; and

(5) Identification and quantification of the replacement parts which will be maintained in inventory for quick replacement.

(b) Preventive Maintenance Plans shall be submitted to HDEM and IDEM - OAM, upon request and shall be subject to review and approval by HDEM and IDEM - OAM.

B.14 Emergency Provision [326 IAC 2-8-12]

(a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided as follows:

(b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describes the following:

(1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;

(2) The permitted facility was at the time being properly operated;

(3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements of this permit;

(4) The Permittee notified HDEM and IDEM - OAM, within four (4) daytime business hours after the beginning of the emergency occurrence by telephone or facsimile;

(HDEM)
Telephone No.: (219) 853-6306
Facsimile No.: (219) 853-6343

(IDEM - OAM)
Telephone No.: 1-800-451-6027 (ask for Office of Air Management) or,
Telephone No.: 317-233-0178
Facsimile No.: 317-233-5967

(5) The Permittee submitted written notice or by facsimile of the emergency to:

Hammond Department of Environmental Management
5925 Calumet Avenue

Hammond, Indiana 46320

and to:

Indiana Department of Environmental Management,
Compliance Branch, Office of Air Management,
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within two (2) working days of the time when emission limitations were exceeded due to the emergency. The notice shall fulfill the requirement of 326 IAC 2-8-4(3)(C)(ii) and must contain the following:

(A) A description of the emergency;

(B) Any steps taken to mitigate the emissions; and

(C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "Responsible official" as defined by 326 IAC 2-7-1(C)(33).

(6) The Permittee immediately took all reasonable steps to correct the emergency.

(c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.

(d) This emergency provision supersedes any emergency or upset provision contained in 326 IAC 1-6 (Malfunctions). This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.

(e) HDEM and IDEM - OAM, may require that the preventive maintenance plan required under 326 IAC 2- 8-3(c)(6) be revised in response to an emergency.

(f) Failure to notify HDEM and IDEM - OAM, by telephone or facsimile within four (4) daytime business hours after the beginning of the emergency shall constitute a violation of 326 IAC 2-8 and any other applicable rules.

(g) Operations may continue during an emergency only if the following conditions are met:

(1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.

(2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:

(A) the Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and

(B) continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw material of substantial economic value.

(C) Any operations shall continue no longer than the minimum time required to prevent the situations identified in clause (B) above.

B.15 Deviations from Permit Requirements and/or Conditions [326 IAC 2-8-4(3)(C)(ii)]
Deviations from requirements, (for emergencies see Condition B.14 - Emergency Provision) the probable cause of such deviations, and any corrective actions or preventive measures taken shall be reported to:

Hammond Department of Environmental Management
5925 Calumet Avenue
Hammond, Indiana 46320

and to:

Indiana Department of Environmental Management,
Compliance Branch, Office of Air Management,
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

within ten (10) calendar days from the date of the discovery of the deviation.

Written notification shall be submitted on the attached Deviation Occurrence Reporting Forms.

B.16 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-8-4(5)(C)] [326 IAC 2-8-7(a)] [326 IAC 2-8-8(a)]
[326 IAC 2-8-8(b)] [326 IAC 2-8-8(c)]

(a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-8-4(5)(C)]

(b) This permit shall be reopened and revised under any of the circumstances listed in IC 13- 15-7-2 (prior to July 1, 1996, in IC 13-7-10-5) or if the commissioner determines any of the following:

(1) That it contains a material mistake.

(2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.

(3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-8-8(a)]

(c) Proceedings by HDEM and IDEM - OAM, to reopen and revise this permit shall follow the same procedures that apply to initial permit issuance and shall affect only those

parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practical. [326 IAC 2-8-8(b)]

(d) The reopening and revision of this permit, under 326 IAC 2-8-8(a), shall not be initiated before notice of such intent is provided to the Permittee by HDEM or IDEM - OAM, at least thirty (30) days in advance of the date this permit is to be reopened, except that HDEM and IDEM - OAM, may provide a shorter time period in the case of an emergency. [326 IAC 2-8-8(c)]

B.17 Permit Renewal [326 IAC 2-8-3(h)]

(a) The application for renewal shall be submitted using the application form or forms prescribed by HDEM and IDEM - OAM, and shall include, at minimum, the information specified in 326 IAC 2-8-3. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(20).

Request for renewal shall be submitted to:

Hammond Department of Environmental Management
5925 Calumet Avenue
Hammond, Indiana 46320

and to:

Indiana Department of Environmental Management,
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, IN 46206-6015

(b) Timely Submittal of Permit Renewal [326 IAC 2-5-3]

(1) The Permittee has a duty to submit a timely and complete permit renewal application. A timely renewal application is one that is:

(A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and

(B) Delivered by U. S. mail and postmarked on or before the date it is due; or

(C) Delivered by any other method if it is received and stamped by HDEM and IDEM - OAM, on or before the date it is due.

(2) If HDEM and IDEM - OAM fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect until the renewal permit has been issued or denied.

(c) Right to Operate After Application of Renewal [326 IAC 2-8-9]
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-8 until HDEM or IDEM - OAM takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee

fails to submit by the deadline specified in writing by HDEM or IDEM - OAM, any additional information identified as needed to process the application.

B.18 Administrative Permit Amendment [326 IAC 2-8-10]

(a) An administrative permit amendment is a FESOP revision that makes changes of the type specified under 326 IAC 2-8-10(a).

(b) An administrative permit amendment may be made by HDEM or IDEM - OAM, consistent with the procedures specified under 326 IAC 2-8-10(b).

(c) The Permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-8-10(b)(3)]

B.19 Minor Permit Modification [326 IAC 2-8-11(a)] [326 IAC 2-8-11(b)(1) and (2)]

(a) A permit modification is any revision to this permit that cannot be accomplished as an administrative permit amendment under 326 IAC 2-8-10.

(b) Minor permit modification procedures shall follow the procedures specified under 326 IAC 2-8-11(b)(1)(A) through (F).

(c) An application requesting the use of minor modification procedures shall meet the requirements of 326 IAC 2-8-3(c) and shall include the information required in 326 IAC 2-8-11(b)(3)(A) through (D).

(d) The Permittee may make the change proposed in its minor permit modification application immediately after it files such application unless the change is subject to the construction permit requirements of 326 IAC 2-1, 326 IAC 2-2, and 326 IAC 2-3. After the Permittee makes the change allowed under minor permit modification procedures, and until HDEM or IDEM - OAM takes any of the actions specified in 326 IAC 2-8-11(b)(5), the Permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this period, the Permittee need not comply with the existing permit terms and conditions it seeks to modify. If the Permittee fails to comply with its proposed permit terms and conditions during this time period, the existing permit terms and conditions it seeks to modify may be enforced against it. [326 IAC 2-8-11(b)(6)]

B.20 Significant Permit Modification [326 IAC 2-8-11(d)]

(a) Significant modification procedures shall be used for applications requesting permit modifications that do not qualify as minor permit modifications or as administrative amendments.

(b) Any significant change in existing monitoring permit terms or conditions and every relaxation of reporting or record keeping permit terms or conditions of this permit shall be considered significant.

(c) Nothing in 326 IAC 2-8-11(d) shall be construed to preclude the Permittee from making changes consistent with 326 IAC 2-8 that would render existing permit compliance terms and conditions irrelevant.

(d) Significant modifications of this permit shall meet all requirements of 326 IAC 2-8, including those for application, public participation, and review by the U.S. EPA, as they apply to permit issuance and renewal.

B.21 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-8-11(b)(1)(D)(i)] Notwithstanding 326 IAC 2-8-11(b)(1)(D)(i) and 326 IAC 2-8-11(c)(1), minor permit modification procedures may be used for modifications of this permit involving the use of economic incentives, marketable FESOP's, emissions trading, and other similar approaches to the extent that such minor permit modification procedures are explicitly provided for in the applicable implementation plan (SIP) or in applicable requirements promulgated by the U.S. EPA.

B.22 Operational Flexibility [326 IAC 2-8-15]

(a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-8-15(b) through (d), without prior permit revision, if each of the following conditions is met:

(1) The changes are not modifications under any provision of Title I of the Clean Air Act;

(2) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed therein as a rate of emissions or in terms of total emissions);

(3) The Permittee notifies the:

Hammond Department of Environmental Management
5925 Calumet Avenue
Hammond, Indiana 46320

and

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

United States Environmental Protection Agency, Region V
Air and Radiation Division
Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604 - 3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(C)(33), and;

(4) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-8-15(b) through (d) and makes such records available, upon

reasonable request, for public review. Such records shall consist of all information required to be submitted to HDEM and IDEM - OAM, in the notices specified in 326 IAC 2-8-15(b)(1), (c)(1), and (d).

(b) For each such change, the required written notification shall include the following:

(1) A brief description of the change within the source;

(2) The date on which the change will occur;

(3) Any change in emissions; and

(4) Any permit term or condition that is no longer applicable as a result of the change.

(c) Emission Trades [326 IAC 2-8-15(c)]
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision, subject to the constraints in section (a) of this condition and those in 326 IAC 2-8-15(c).

(d) Alternative Operating Scenarios [326 IAC 2-8-15(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-8-4(7) and subject to the constraints in section (a) of this condition and those in 326 IAC 2-8-15(d).

B.23 Construction Permit Requirement [326 IAC 2-1]
Prior to any change in the operation which may result in an increase in allowable emissions exceeding those specified in 326 IAC 2-1-1 (Construction and Operating Permit Requirements), the change must be approved by the Hammond Department of Environmental Management and the Office of Air Management (OAM).

B.24 Inspection and Entry [326 IAC 2-8-5(a)(2)]
Upon presentation of HDEM or IDEM identification cards, credentials, and other documents as may be required by law, the Permittee shall allow HDEM, IDEM-OAM, U.S. EPA, or an authorized representative to perform the following:

(a) Enter upon the Permittee's premises where a FESOP source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;

(d) Sample or monitor, at reasonable times, substances or parameters for the purpose of demonstrating compliance with this permit or applicable requirements; and

(e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of demonstrating compliance with this permit or applicable requirements.

[326 IAC 2-8-5(a)(4)]

B.25 Annual Fee Payment [326 IAC 2-8-4(6)] [326 IAC 2-8-16]

(a) The Permittee shall pay annual fees to IDEM - OAM, consistent with the fee schedule established in 326 IAC 2-8-16.

(b) Failure to pay may result in administrative enforcement action, revocation of this permit, referral to the Office of Attorney General for collection, or other appropriate measures.

(c) The Permittee shall pay the annual fee within thirty (30) calendar days of receipt of a billing by IDEM - OAM or in a time period that is consistent with the payment schedule issued by IDEM - OAM.

(d) If the Permittee does not receive a bill from IDEM - OAM, thirty (30) calendar days before due date, the Permittee shall call the following telephone numbers: 1-800-451-6027 or 317-233-0179 (ask for OAM, Data Support Section) to determine the appropriate permit fee. The applicable fee is due April 1 of each year.

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

C.1 Overall Source Limit (326 IAC 2-8)

Pursuant to 326 IAC 2-8, emissions of VOC from the entire source shall not exceed 24 tons per 365 day period. Emissions of any other regulated pollutant from the entire source shall not exceed 99 tons per 365 day period. Emissions of hazardous air pollutants (HAPs) from the entire source shall not exceed 9 tons per 365 day period for any individual HAP or 24 tons per 365 day period of any combination of HAPs. Emissions shall include those from all emission points at the source including those that are insignificant as defined in 326 IAC 2-7-1(20). The source shall be allowed to add insignificant activities not already listed in this permit, as long as the total emissions from the source do not exceed the above specified limits. In the event that any condition or combination of conditions in Section D of this permit differs from the above, the most restrictive limit will prevail.

C.2 Opacity

Pursuant to 326 IAC 5-1-2 (Visible Emissions Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), visible emissions shall not exceed an average of 20 percent opacity in 24 consecutive readings.

C.3 Open Burning

The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6.

C.4 Fugitive Dust Emissions

The Permittee shall be in violation of 326 IAC 6-1-11.1 (Lake County Fugitive Particulate Matter Control Requirements), if the opacity of fugitive particulate emissions exceeds ten (10) percent. Compliance with this limitation shall be determined by 40 CFR 60, Appendix A, Method 9.

C.5 Operation of Equipment [326 IAC 2-8-5(a)(4)]

(a) All equipment that potentially might emit pollutants into the ambient air shall be properly operated and maintained.

(b) Unless otherwise stated in this permit, all air pollution control equipment listed in this permit shall be operated at all times when the emission unit(s) vented to the control equipment is in operation.

(c) The permittee shall perform all necessary maintenance and make all necessary attempts to keep all air pollution control equipment in proper operating condition at all times.

Testing [326 IAC 2-8-4(3)]

C.6 Performance Testing

Compliance testing shall be conducted on the facilities specified in Section D of this permit for the specified pollutant within three (3) years of issuance of the FESOP. All testing shall be performed according to the provisions of 326 IAC 3-2.1 (Source Sampling Procedures) and by methods in the approved test protocol. The test protocol shall be submitted to:

Hammond Department of Environmental Management
5925 Calumet Avenue
Hammond, Indiana 46320

and to:

Indiana Department of Environmental Management,
Compliance Data Section, Office of Air Management,
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

at least thirty-five (35) days before the intended test date. [326 IAC 3-2.1-2(a)]

Compliance Monitoring [326 IAC 2-8-5(a)(1)]

C.7 Compliance Monitoring [326 IAC 2-8-4(3)]
Compliance with applicable requirements shall be documented in accordance with the provisions of 326 IAC 2-8-4(3). The Permittee shall be responsible for installing any necessary equipment and initiating any additional monitoring no more than ninety (90) days after receipt of this permit. If due to circumstances beyond its control, this schedule cannot be met, the Permittee shall notify:

Hammond Department of Environmental Management
5925 Calumet Avenue
Hammond, Indiana 46320

and

Indiana Department of Environmental Management,
Compliance Data Section, Office of Air Management,
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

in writing, with full justification of the reasons for inability to meet this date and a schedule which it expects to meet. If a denial of the request is not received before the monitoring is fully implemented, the schedule shall be deemed approved.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(C)(33).

C.8 Maintenance of Monitoring Equipment [326 IAC 1-6]
The Permittee shall perform all necessary maintenance and make all necessary attempts to keep all required monitoring equipment in proper operating condition at all times. In the event that a breakdown of the monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem.

The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment. Preventive maintenance plans of the monitors shall be implemented. In addition prompt correction, as indicated, shall be initiated within the time frames specified, whenever the parameters monitored fall outside of the indicated values.

C.9 Monitoring Methods [326 IAC 3]

Any monitoring or testing performed to meet the requirements of this permit shall be performed, whenever applicable according to the provisions of 326 IAC 3, or 40 CFR Part 60, Appendix A, as appropriate, unless some other method is specified in this permit.

C.10 Pressure Gauge Specifications

Whenever a condition in this permit requires the taking of pressure drop across any part of the unit or its control device the gauge employed shall be maintained as specified by the manufacturer.

Corrective Actions [326 IAC 2-8-4(1)] [326 IAC 2-8-5(1)]

C.11 Failure to Take Corrective Action

For each unit for which parametric monitoring is required, appropriate corrective actions as described in the Preventive Maintenance Plan shall be taken when indicated by monitoring information. Failure to take corrective action following an excursion of a surrogate monitoring parameter within the indicated time may constitute a violation of the permit coupled with any one of the following conditions:

(a) The permittee fails to determine and document the cause of the excursion; or

(b) Taking corrective action as set in the Plan would be unreasonable; or

(c) Failure to take corrective action results in the exceedance of an enforceable emission limitation, in which case the violation would be of the underlying standard and may result in a more severe penalty.

After investigating the reason for the excursion, the permittee may be excused from taking further corrective action for any of the following reasons:

(a) Providing that prompt action was taken to correct the monitoring equipment, that the monitoring equipment malfunctioned, giving a false reading; or

(b) The permittee has determined that the parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied; or

(c) An automatic measurement was taken when the process was not operating; or

(d) The permittee determines that the process has already returned to operating within “normal” parameters and no corrective action is required.

Records shall be kept of all instances in which the action values were not met and of all corrective actions taken. In the event of an “emergency” as defined in 326 IAC 2-8-12 the provisions of that rule requiring prompt corrective action to mitigate emissions shall prevail.

C.12 Actions Related to Noncompliance Demonstrated by a Stack Test

Whenever the results of the stack test performed in conformance with Condition C.6 - Performance Testing, of this permit exceed the level specified in any condition of this permit, appropriate corrective actions shall be submitted to HDEM and IDEM-OAM within 30 (thirty) days of receipt of the test results. These actions shall be implemented immediately unless notified by OAM that they are not acceptable. The Permittee shall minimize emissions while the corrective actions are being implemented.

Record Keeping and Reporting [326 IAC 2-8-4(3)]

C.13 Emission Reporting [326 IAC 2-6]

(a) The Permittee shall submit a certified, annual emission statement that meets the requirements of 326 IAC 2-6 (Emission Reporting). This annual statement must be received by April 15 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8)(Emission Statement Operating Year). The annual statement must be submitted to:

Hammond Department of Environmental Management
5925 Calumet Avenue
Hammond, Indiana 46320

and

Indiana Department of Environmental Management,
Data Support Section, Office of Air Management,
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

(b) This annual emission statement required by this permit shall be timely if:

(1) Delivered by U.S. mail and postmarked on or before the date it is due;

or

(2) Delivered by any other method if it is received and stamped by HDEM and IDEM - OAM, on or before the date it is due.

C.14 Monitoring Data Availability

All observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions. Records shall be kept of the times that the equipment is not operating. If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality. If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded. At its discretion, HDEM or IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed 5% of the operating time in any quarter. Temporary, unscheduled

unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason.

C.15 General Record Keeping Requirements

(a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location and available within one-hour upon verbal request of an HDEM or IDEM - OAM representative, for a minimum of three (3) years. They may be stored elsewhere for the remaining two years providing they are made available within thirty (30) days after written request.

(b) Records of required monitoring information shall include:

(1) The date, place, and time of sampling or measurements;

(2) The dates analyses were performed;

(3) The company or entity performing the analyses;

(4) The analytical techniques or methods used;

(5) The results of such analyses; and

(6) The operating conditions existing at the time of sampling or measurement.

(c) Support information shall include:

(1) Copies of all reports required by this permit;

(2) All original strip chart recordings for continuous monitoring instrumentation;

(3) All calibration and maintenance records;

(4) All preventive maintenance and corrective actions that were implemented. Such records shall briefly describe what was done and indicate who did it;

(5) Relevant work purchase orders;

(6) Quality assurance and quality control procedures;

(7) Operator’s standard operating procedures;

(8) Manufacturer's specifications or their equivalent; and

(9) Equipment "troubleshooting" guidance.

C.16 General Reporting Requirements

(a) Reports required by conditions in Section D of this permit shall be submitted to:

Hammond Department of Environmental Management
5925 Calumet Avenue
Hammond, Indiana 46320

and to:

Indiana Department of Environmental Management,
Compliance Data Section, Office of Air Management,
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

(b) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be timely if:
(1) Delivered by U.S. mail and postmarked on or before the date it is due; or

(2) Delivered by any other method if it is received and stamped by HDEM and IDEM - OAM, on or before the date it is due.

(c) All instances of deviations from any requirements of this permit must be clearly identified in such reports.

(d) Any corrective actions taken as a result of an exceedance of a limit, an excursion from the parametric values, or a malfunction that may have caused excess emissions must be clearly identified in such reports.

(e) The first report shall commence the date of issuance of this permit.

SECTION D.1 FACILITY OPERATION CONDITIONS

Stack ID S-1. (The process description is confidential. A detailed description is available in the confidential copy of the TSD). Particulate and lead emissions are controlled by a bag filter (No. 121) followed by a HEPA filter.

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

D.1.1 Particulate Matter less than 10 microns in diameter (PM10)

State That pursuant to 326 IAC 6-1-10.1 (Lake County PM10 emission requirements), the PM10 emissions for stack ID S-1 shall be limited to 0.022 gr/dscf and 0.220 lbs/hr as specifically listed in 326 IAC 6-1-10.1(d).

D.1.2 Particulate Matter less than 10 microns in diameter (PM10)

State/Federal

That the baghouse and HEPA system shall be operated at all times when the associated facility is in operation. Operation of the air pollution control equipment according to the compliance monitoring requirements of this permit will ensure that the source total PM10 emissions stay below 100 tons per year. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.1.3 Particulate Matter (PM)

State That pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended), particulate matter emissions from each facility shall be set equal to the PM10 emission limits and that visible emissions from each facility shall not exceed 20% opacity.

D.1.4 Lead (Pb)

State That pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions for stack ID S-1 shall be limited to 0.04 lbs/hr as specifically listed in 326 IAC 15-1-2(a)(7).

D.1.5 Lead (Pb)

State/Federal

The baghouse and HEPA system shall be operated at all times when its associated facility is in operation. Operation of the air pollution control equipment according to the compliance monitoring requirements of this permit will ensure that the source total Pb emissions stay below 10 Tons per year. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.1.6 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

State/Federal

A Preventive Maintenance Plan, in accordance with Condition B.13 of this permit, is required for this facility.

Testing Requirements [326 IAC 2-8-4(3)]

D.1.7 Stack ID S-1 Performance Testing

That no later three (3) years after receipt of this permit, the Permittee shall perform a compliance test for lead emissions in accordance with 326 IAC 3-2.1 and approved by HDEM and IDEM - OAM.

Compliance Monitoring Requirements [326 IAC 2-8-5(a)(1)]

D.1.8 Monitoring of Air Pollution Control Equipment Operational Parameters

That the control equipment shall be operated at all times when its associated facility is in operation. The Permittee shall take daily readings of the total static pressure drop across each baghouse (and HEPA where applicable) when the associated facility is in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the control equipment shall be maintained within the following range(s) in inches of water:

(Stack ID S-1)
Bag Filter No. 121: 0.1 - 10
HEPA: 0.1 - 10

The Preventive Maintenance Plan for each of control equipment shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with condition C.10 - Pressure Gauge Specifications, be subject to approval by HDEM and IDEM, and shall be zero balanced, at minimum, every six months.

D.1.9 Daily Visible Emissions Notations

Daily visible emission notations of each stack shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, 80 percent of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Preventive Maintenance Plan for these units shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

D.1.10 Broken Bag or Failure Detection

That in the event that bag failure has been observed:

(a) The affected compartments will be shut down immediately until the units have been replaced.
(b) Based upon the findings of the inspection, any additional corrective actions will be devised before the unit is restarted and will include a timetable for completion.

D.1.11 Periodic Emissions Testing

That the permittee shall perform lead emissions testing on this stack every five (5) years in accordance with HDEM and IDEM requirements.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.1.12 Operational Parameters

That the Permittee shall maintain a daily record at the stationary source of the following values:

(a) differential static pressure across the control device;

(b) Cleaning cycle frequency;

(c) Visual stack emissions observations.

SECTION D.2 FACILITY OPERATION CONDITIONS

Stack ID S-2. (The process description is confidential. A detailed description is available in the confidential copy of the TSD). Particulate and lead emissions are controlled by a bag filter (No. 115) followed by a HEPA filter.

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

D.2.1 Particulate Matter less than 10 microns in diameter (PM10)

State That pursuant to 326 IAC 6-1-10.1 (Lake County PM10 emission requirements), the PM10 emissions for stack ID S-2 shall be limited to 0.022 gr/dscf and 0.080 lbs/hr as specifically listed in 326 IAC 6-1-10.1(d).

D.2.2 Particulate Matter less than 10 microns in diameter (PM10)

State/Federal

That the baghouse and HEPA system shall be operated at all times when the associated facility is in operation. Operation of the air pollution control equipment according to the compliance monitoring requirements of this permit will ensure that the source total PM10 emissions stay below 100 tons per year. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.2.3 Particulate Matter (PM)

State That pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended), particulate matter emissions from each facility shall be set equal to the PM10 emission limits and that visible emissions from each facility shall not exceed 20% opacity.

D.2.4 Lead (Pb)

Local/State

That pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions for stack ID S-2 shall be limited to 0.03 lbs/hr as specifically listed in 326 IAC 15-1-2(a)(7).

D.2.5 Lead (Pb)

Local/State/Federal

The baghouse and HEPA system shall be operated at all times when its associated facility is in operation. Operation of the air pollution control equipment according to the compliance monitoring requirements of this permit will ensure that the source total Pb emissions stay below 10 Tons per year. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.2.6 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

State/Federal

A Preventive Maintenance Plan, in accordance with Condition B.13 of this permit, is required for this facility.

Testing Requirements [326 IAC 2-8-4(3)]

D.2.7 There are no testing requirements necessary for this facility.

Compliance Monitoring Requirements [326 IAC 2-8-5(a)(1)]

D.2.8 Monitoring of Air Pollution Control Equipment Operational Parameters

That the control equipment shall be operated at all times when its associated facility is in operation. The Permittee shall take daily readings of the total static pressure drop across each baghouse (and HEPA where applicable) when the associated facility is in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the control equipment shall be maintained within the following range(s) in inches of water:

(Stack ID S-2)
Bag Filter No. 115: 0.1 - 10
HEPA: 0.1 - 10

The Preventive Maintenance Plan for each of control equipment shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with condition C.10 - Pressure Gauge Specifications, be subject to approval by HDEM and IDEM, and shall be zero balanced, at minimum, every six months.

D.2.9 Daily Visible Emissions Notations

Daily visible emission notations of each stack shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, 80 percent of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Preventive Maintenance Plan for these units shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

D.2.10 Broken Bag or Failure Detection

That in the event that bag failure has been observed:

(a) The affected compartments will be shut down immediately until the units have been replaced.
(b) Based upon the findings of the inspection, any additional corrective actions will be devised before the unit is restarted and will include a timetable for completion.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.2.11 Operational Parameters

That the Permittee shall maintain a daily record at the stationary source of the following values:

(a) differential static pressure across the control device;

(b) Cleaning cycle frequency;

(c) Visual stack emissions observations.

SECTION D.3 FACILITY OPERATION CONDITIONS

Stack ID S-3. (The process description is confidential. A detailed description is available in the confidential copy of the TSD). There are no air pollution control equipment associated with this facility.

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

D.3.1 Particulate Matter less than 10 microns in diameter (PM10)
Local That pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended), the PM10 emissions for stack ID S-3 shall be limited to 0.970 lbs/hr.

D.3.2 Particulate Matter (PM)
Local That pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended), particulate matter emissions from each facility shall be set equal to the PM10 emission limits and that visible emissions from each facility shall not exceed 20% opacity.

There are no state or federal requirements that apply to this facility.

Testing Requirements [326 IAC 2-8-4(3)]

D.3.3 There are no testing requirements necessary for this facility.

Compliance Monitoring Requirements [326 IAC 2-8-5(a)(1)]

D.3.4 Daily Visible Emissions Notations
Daily visible emission notations of each stack shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, 80 percent of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Preventive Maintenance Plan for these units shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.3.5 Operational Parameters
That the Permittee shall maintain a daily record at the stationary source of the visual stack emissions observations.

D.3.6 Quarterly Reporting
There are no reporting requirements for this facility.

SECTION D.4 FACILITY OPERATION CONDITIONS

Stack IDs S-4 & S-5. (The process description is confidential. A detailed description is available in the confidential copy of the TSD). Particulate and lead emissions from each system are controlled by its own bag filter (No. 204) and (No. 226) followed by separate HEPA filters.

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

D.4.1 Particulate Matter less than 10 microns in diameter (PM10)

State That pursuant to 326 IAC 6-1-10.1 (Lake County PM10 emission requirements), the PM10 emissions for stack ID S-4 shall be limited to 0.022 gr/dscf and 1.460 lbs/hr; and 0.022 gr/dscf and 1.030 lbs/hr for stack ID S-5 as specifically listed in 326 IAC 6-1-10.1(d).

D.4.2 Particulate Matter less than 10 microns in diameter (PM10)

State/Federal

That the baghouses shall be operated at all times when the associated facility is in operation. Operation of the air pollution control equipment according to the compliance monitoring requirements of this permit will ensure that the source total PM10 emissions stay below 100 tons per year. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.4.3 Particulate Matter (PM)

State That pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended), particulate matter emissions from each facility shall be set equal to the PM10 emission limits and that visible emissions from each facility shall not exceed 20% opacity.

D.4.4 Lead (Pb)

State That pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions for stack IDs S-4 and S-5 shall be limited to 0.07 lbs/hr, per stack, as specifically listed in 326 IAC 15-1-2(a)(7).

D.4.5 Lead (Pb)

State/Federal

The baghouses shall be operated at all times when its associated facility is in operation. Operation of the air pollution control equipment according to the compliance monitoring requirements of this permit will ensure that the source total Pb emissions stay below 10 Tons per year. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.4.6 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

State/Federal

A Preventive Maintenance Plan, in accordance with Condition B.13 of this permit, is required for this facility.

Testing Requirements [326 IAC 2-8-4(3)]

D.4.7 Stack ID S-4 Performance Testing

That no later than three (3) years after receipt of this permit, the Permittee shall perform a compliance test for lead emissions in accordance with 326 IAC 3-2.1 and approved by HDEM and IDEM - OAM.

Compliance Monitoring Requirements [326 IAC 2-8-5(a)(1)]

D.4.8 Monitoring of Air Pollution Control Equipment Operational Parameters

That the control equipment shall be operated at all times when its associated facility is in operation. The Permittee shall take daily readings of the total static pressure drop across each baghouse (and HEPA where applicable) when the associated facility is in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the control equipment shall be maintained within the following range(s) in inches of water:

(Stack ID S-4)
Bag Filter No. 204: 0.1 - 5
HEPA: 0.1 - 10

(Stack ID S-5)
Bag Filter No. 226: 0.1 - 10
HEPA: 0.1 - 10

The Preventive Maintenance Plan for each of control equipment shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with condition C.10 - Pressure Gauge Specifications, be subject to approval by HDEM and IDEM, and shall be zero balanced, at minimum, every six months.

D.4.9 Daily Visible Emissions Notations

Daily visible emission notations of each stack shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, 80 percent of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Preventive Maintenance Plan for these units shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

D.4.10 Broken Bag or Failure Detection

That in the event that bag failure has been observed:

(a) The affected compartments will be shut down immediately until the units have been replaced.
(b) Based upon the findings of the inspection, any additional corrective actions will be devised before the unit is restarted and will include a timetable for completion.

D.4.11 Periodic Emissions Testing

That the permittee shall perform lead emissions testing on either Stack S-4 or S-5 every five (5) years in accordance with HDEM and IDEM requirements.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.4.12 Operational Parameters

That the Permittee shall maintain a daily record at the stationary source of the following values:

(a) differential static pressure across the control device;

(b) Cleaning cycle frequency;

(c) Visual stack emissions observations.

SECTION D.5 FACILITY OPERATION CONDITIONS

Stack IDs S-6, S-7, & S-8. (The process description is confidential. A detailed description is available in the confidential copy of the TSD). Particulate and lead emissions from Lines 1, 2, & 3 are controlled by its own bag filter (No. 209, 236, & 247, respectively).

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

D.5.1 Particulate Matter less than 10 microns in diameter (PM10)

State That pursuant to 326 IAC 6-1-10.1 (Lake County PM10 emission requirements), the PM10 emissions for stack IDs S-6, S-7, & S-8 shall be limited to 0.022 gr/dscf and 0.570 lbs/hr, per stack, as specifically listed in 326 IAC 6-1-10.1(d).

D.5.2 Particulate Matter less than 10 microns in diameter (PM10)

State/Federal

That the baghouses shall be operated at all times when the associated facility is in operation. Operation of the air pollution control equipment according to the compliance monitoring requirements of this permit will ensure that the source total PM10 emissions stay below 100 tons per year. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.5.3 Particulate Matter (PM)

State That pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended), particulate matter emissions from each facility shall be set equal to the PM10 emission limits and that visible emissions from each facility shall not exceed 20% opacity.

D.5.4 Lead (Pb)

State That pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions for stack IDs S-6, S-7, & S-8 shall be limited to 0.05 lbs/hr, per stack, as specifically listed in 326 IAC 15-1-2(a)(7).

D.5.5 Lead (Pb)

State/Federal

The baghouses shall be operated at all times when its associated facility is in operation. Operation of the air pollution control equipment according to the compliance monitoring requirements of this permit will ensure that the source total Pb emissions stay below 10 Tons per year. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.5.6 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

State/Federal

A Preventive Maintenance Plan, in accordance with Condition B.13 of this permit, is required for this facility.

Testing Requirements [326 IAC 2-8-4(3)]

D.5.7 Stack ID S-8 Performance Testing

That no later than three (3) years after receipt of this permit, the Permittee shall perform a compliance test for lead emissions on Stack S-8 in accordance with 326 IAC 3-2.1 and approved by HDEM and IDEM - OAM.

Compliance Monitoring Requirements [326 IAC 2-8-5(a)(1)]

D.5.8 Monitoring of Air Pollution Control Equipment Operational Parameters

That the control equipment shall be operated at all times when its associated facility is in operation. The Permittee shall take daily readings of the total static pressure drop across each baghouse (and HEPA where applicable) when the associated facility is in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the control equipment shall be maintained within the following range(s) in inches of water:

(Stack ID S-6)
Bag Filter No. 209: 0.1 - 10
HEPA: 0.1 - 10

(Stack ID S-7)
Bag Filter No. 236: 0.1 - 5
HEPA: 0.1 - 10

(Stack ID S-8)
Bag Filter No. 247: 0.1 - 10
HEPA: 0.1 - 10

The Preventive Maintenance Plan for each of control equipment shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with condition C.10 - Pressure Gauge Specifications, be subject to approval by HDEM and IDEM, and shall be zero balanced, at minimum, every six months.

D.5.9 Daily Visible Emissions Notations

Daily visible emission notations of each stack shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, 80 percent of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Preventive Maintenance Plan for these units shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

D.5.10 Broken Bag or Failure Detection

That in the event that bag failure has been observed:

(a) The affected compartments will be shut down immediately until the units have been replaced.
(b) Based upon the findings of the inspection, any additional corrective actions will be devised before the unit is restarted and will include a timetable for completion.

D.5.11 Periodic Emissions Testing

That the permittee shall perform lead emissions testing on one of the three stacks, S-6, S-7, or S-8 every five (5) years in accordance with HDEM and IDEM requirements.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.5.12 Operational Parameters

That the Permittee shall maintain a daily record at the stationary source of the following values:

(a) differential static pressure across the control device;

(b) Cleaning cycle frequency;

(c) Visual stack emissions observations.

SECTION D.6 FACILITY OPERATION CONDITIONS

Stack IDs S-9, S-10, and S-11. (The process description is confidential. A detailed description is available in the confidential copy of the TSD). Particulate and lead emissions from systems 1, 2, & 3 are controlled by its own bag filter (No. 317, 318, & 319, respectively).

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

D.6.1 Particulate Matter less than 10 microns in diameter (PM10)

State That pursuant to 326 IAC 6-1-10.1 (Lake County PM10 emission requirements), the PM10 emissions for stack IDs S-9, S-10, & S-11 shall be limited to 0.022 gr/dscf and 0.200 lbs/hr, per stack, as specifically listed in 326 IAC 6-1-10.1(d).

D.6.2 Particulate Matter less than 10 microns in diameter (PM10)

State/Federal

That the baghouses shall be operated at all times when the associated facility is in operation. Operation of the air pollution control equipment according to the compliance monitoring requirements of this permit will ensure that the source total PM10 emissions stay below 100 tons per year. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.6.3 Particulate Matter (PM)

State That pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended), particulate matter emissions from each facility shall be set equal to the PM10 emission limits and that visible emissions from each facility shall not exceed 20% opacity.

D.6.4 Lead (Pb)

State That pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions for stack IDs S-9, S-10, & S-11 shall be limited to 0.04 lbs/hr, per stack, as specifically listed in 326 IAC 15-1-2(a)(7).

D.6.5 Lead (Pb)

State/Federal

The baghouses shall be operated at all times when its associated facility is in operation. Operation of the air pollution control equipment according to the compliance monitoring requirements of this permit will ensure that the source total Pb emissions stay below 10 Tons per year. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.6.6 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

State/Federal

A Preventive Maintenance Plan, in accordance with Condition B.13 of this permit, is required for this facility.

Testing Requirements [326 IAC 2-8-4(3)]

D.6.7 Stack IDs S-9, S-10, & S-11 Performance Testing

That no later than three (3) years after receipt of this permit, the Permittee shall perform a compliance test for lead emissions on one of the three stacks, S-9, S-10, or S-11 in accordance with 326 IAC 3-2.1 and approved by HDEM and IDEM - OAM.

Compliance Monitoring Requirements [326 IAC 2-8-5(a)(1)]

D.6.8 Monitoring of Air Pollution Control Equipment Operational Parameters

That the control equipment shall be operated at all times when its associated facility is in operation. The Permittee shall take daily readings of the total static pressure drop across each baghouse (and HEPA where applicable) when the associated facility is in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the control equipment shall be maintained within the following range(s) in inches of water:

(Stack S-9)
Bag Filter No. 317: 0.1 - 5
HEPA: 0.1 - 10

(Stack S-10)
Bag Filter No. 318: 0.1 - 5
HEPA: 0.1 - 10

(Stack S-11)
Bag Filter No. 319: 0.1 - 10
HEPA: 0.1 - 10

The Preventive Maintenance Plan for each of control equipment shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with condition C.10 - Pressure Gauge Specifications, be subject to approval by HDEM and IDEM, and shall be zero balanced, at minimum, every six months.

D.6.9 Daily Visible Emissions Notations

Daily visible emission notations of each stack shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, 80 percent of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Preventive Maintenance Plan for these units shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

D.6.10 Broken Bag or Failure Detection

That in the event that bag failure has been observed:

(a) The affected compartments will be shut down immediately until the units have been replaced.
(b) Based upon the findings of the inspection, any additional corrective actions will be devised before the unit is restarted and will include a timetable for completion.

D.6.11 Periodic Emissions Testing

That the permittee shall perform lead emissions testing on one of the three stacks, S-9, S-10, or S-11 every five (5) years in accordance with HDEM and IDEM requirements.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.6.12 Operational Parameters

That the Permittee shall maintain a daily record at the stationary source of the following values:

(a) differential static pressure across the control device;

(b) Cleaning cycle frequency;

(c) Visual stack emissions observations.

SECTION D.7 FACILITY OPERATION CONDITIONS

Stack ID S-12. (The process description is confidential. A detailed description is available in the confidential copy of the TSD). Particulate and lead emissions are controlled by a bag filter (No. 506) followed by a HEPA filter.

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

D.7.1 Particulate Matter less than 10 microns in diameter (PM10)

State That pursuant to 326 IAC 6-1-10.1 (Lake County PM10 emission requirements), the PM10 emissions for stack ID S-12 shall be limited to 0.022 gr/dscf and 0.200 lbs/hr as specifically listed in 326 IAC 6-1-10.1(d).

D.7.2 Particulate Matter less than 10 microns in diameter (PM10)

State/Federal

That the baghouse shall be operated at all times when the associated facility is in operation. Operation of the air pollution control equipment according to the compliance monitoring requirements of this permit will ensure that the source total PM10 emissions stay below 100 tons per year. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.7.3 Particulate Matter (PM)

State That pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended), particulate matter emissions from each facility shall be set equal to the PM10 emission limits and that visible emissions from each facility shall not exceed 20% opacity.

D.7.4 Lead (Pb)

State That pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions for stack ID S-12 shall be limited to 0.04 bs/hr as specifically listed in 326 IAC 15-1-2(a)(7).

D.7.5 Lead (Pb)

State/Federal

The baghouse shall be operated at all times when its associated facility is in operation. Operation of the air pollution control equipment according to the compliance monitoring requirements of this permit will ensure that the source total Pb emissions stay below 10 Tons per year. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.7.6 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

State/Federal

A Preventive Maintenance Plan, in accordance with Condition B.13 of this permit, is required for this facility.

Testing Requirements [326 IAC 2-8-4(3)]

D.7.7 Stack ID S-12 Performance Testing

That no later than three (3) years after receipt of this permit, the Permittee shall perform a compliance test for lead emissions on stack S-12 in accordance with 326 IAC 3-2.1 and approved by HDEM and IDEM - OAM.

Compliance Monitoring Requirements [326 IAC 2-8-5(a)(1)]

D.7.8 Monitoring of Air Pollution Control Equipment Operational Parameters

That the control equipment shall be operated at all times when its associated facility is in operation. The Permittee shall take daily readings of the total static pressure drop across each baghouse (and HEPA where applicable) when the associated facility is in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the control equipment shall be maintained within the following range(s) in inches of water:

(Stack S-12)
Bag Filter No. 506: 0.1 - 5
HEPA: 0.1 - 10

The Preventive Maintenance Plan for each of control equipment shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with condition C.10 - Pressure Gauge Specifications, be subject to approval by HDEM and IDEM, and shall be zero balanced, at minimum, every six months.

D.7.9 Daily Visible Emissions Notations

Daily visible emission notations of each stack shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, 80 percent of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Preventive Maintenance Plan for these units shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

D.7.10 Broken Bag or Failure Detection

That in the event that bag failure has been observed:

(a) The affected compartments will be shut down immediately until the units have been replaced.
(b) Based upon the findings of the inspection, any additional corrective actions will be devised before the unit is restarted and will include a timetable for completion.

D.7.11 Periodic Emissions Testing

That the permittee shall perform lead emissions testing on stack ID S-12 every five (5) years in accordance with HDEM and IDEM requirements.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.7.12 Operational Parameters

That the Permittee shall maintain a daily record at the stationary source of the following values:

(a) differential static pressure across the control device;

(b) Cleaning cycle frequency;

(c) Visual stack emissions observations.

SECTION D.8 FACILITY OPERATION CONDITIONS

Stack ID S-13. (The process description is confidential. A detailed description is available in the confidential copy of the TSD). Each hopper is equipped with a bag filter (#653, 654, & 655, respectively).

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

D.8.1 Particulate Matter less than 10 microns in diameter (PM10)

State That pursuant to 326 IAC 6-1-10.1 (Lake County PM10 emission requirements), the PM10 emissions for stack ID S-13 shall be limited to 0.022 gr/dscf and 0.200 lbs/hr as specifically listed in 326 IAC 6-1-10.1(d).

D.8.2 Particulate Matter less than 10 microns in diameter (PM10)

State/Federal

That the baghouses shall be operated at all times when the associated facility is in operation. Operation of the air pollution control equipment according to the compliance monitoring requirements of this permit will ensure that the source total PM10 emissions stay below 100 tons per year. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.8.3 Particulate Matter (PM)

State That pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended), particulate matter emissions from each facility shall be set equal to the PM10 emission limits and that visible emissions from each facility shall not exceed 20% opacity.

D.8.4 Lead (Pb)

State That pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions for stack ID S-13 shall be limited to 0.04 lbs/hr as specifically listed in 326 IAC 15-1-2(a)(7).

D.8.5 Lead (Pb)

State/Federal

The baghouses shall be operated at all times when its associated facility is in operation. Operation of the air pollution control equipment according to the compliance monitoring requirements of this permit will ensure that the source total Pb emissions stay below 10 Tons per year. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.8.6 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

State/Federal

A Preventive Maintenance Plan, in accordance with Condition B.13 of this permit, is required for this facility.

Testing Requirements [326 IAC 2-8-4(3)]

D.8.7 Stack ID S-13 Performance Testing

That no later than three (3) years after receipt of this permit, the Permittee shall perform a compliance test for lead emissions on stack S-13 in accordance with 326 IAC 3-2.1 and approved by HDEM and IDEM - OAM.

Compliance Monitoring Requirements [326 IAC 2-8-5(a)(1)]

D.8.8 Monitoring of Air Pollution Control Equipment Operational Parameters

That the control equipment shall be operated at all times when its associated facility is in operation. The Permittee shall take daily readings of the total static pressure drop across each baghouse (and HEPA where applicable) when the associated facility is in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the control equipment shall be maintained within the following range(s) in inches of water:

(Stack S-13)
Bag Filter No. 653: 0.1 - 5
Bag Filter No. 654: 0.1 - 5
Bag Filter No. 655: 0.1 - 10
HEPA: 0.1 - 10

The Preventive Maintenance Plan for each of control equipment shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with condition C.10 - Pressure Gauge Specifications, be subject to approval by HDEM and IDEM, and shall be zero balanced, at minimum, every six months.

D.8.9 Daily Visible Emissions Notations

Daily visible emission notations of each stack shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, 80 percent of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Preventive Maintenance Plan for these units shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

D.8.10 Broken Bag or Failure Detection

That in the event that bag failure has been observed:

(a) The affected compartments will be shut down immediately until the units have been replaced.
(b) Based upon the findings of the inspection, any additional corrective actions will be devised before the unit is restarted and will include a timetable for completion.

D.8.11 Periodic Emissions Testing

That the permittee shall perform lead emissions testing on stack ID S-13 every five (5) years in accordance with HDEM and IDEM requirements.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.8.12 Operational Parameters

That the Permittee shall maintain a daily record at the stationary source of the following values:

(a) differential static pressure across the control device;

(b) Cleaning cycle frequency;

(c) Visual stack emissions observations.

SECTION D.9 FACILITY OPERATION CONDITIONS

Stack ID S-14. (The process description is confidential. A detailed description is available in the confidential copy of the TSD). Particulate and lead emissions are controlled by a bag filter (No. 455).

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

D.9.1 Particulate Matter less than 10 microns in diameter (PM10)
State That pursuant to 326 IAC 6-1-10.1 (Lake County PM10 emission requirements), the PM10 emissions for stack ID S-14 shall be limited to 0.022 gr/dscf and 0.200 lbs/hr as specifically listed in 326 IAC 6-1-10.1(d).

D.9.2 Particulate Matter less than 10 microns in diameter (PM10)
State/Federal
That the baghouse shall be operated at all times when the associated facility is in operation. Operation of the air pollution control equipment according to the compliance monitoring requirements of this permit will ensure that the source total PM10 emissions stay below 100 tons per year. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.9.3 Particulate Matter (PM)
State That pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended), particulate matter emissions from each facility shall be set equal to the PM10 emission limits and that visible emissions from each facility shall not exceed 20% opacity.

D.9.4 Lead (Pb)
State That pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions for stack ID S-14 shall be limited to 0.04 lbs/hr as specifically listed in 326 IAC 15-1-2(a)(7).

D.9.5 Lead (Pb)
State/Federal
The baghouse shall be operated at all times when its associated facility is in operation. Operation of the air pollution control equipment according to the compliance monitoring requirements of this permit will ensure that the source total Pb emissions stay below 10 Tons per year. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.9.6 Preventive Maintenance Plan [326 IAC 2-8-4(9)]
State/Federal
A Preventive Maintenance Plan, in accordance with Condition B.13 of this permit, is required for this facility.

Testing Requirements [326 IAC 2-8-4(3)]

D.9.7 Stack ID S-14 Performance Testing
That no later than three (3) years after receipt of this permit, the Permittee shall perform a compliance test for lead emissions on stack S-14 in accordance with 326 IAC 3-2.1 and approved by HDEM and IDEM - OAM.

Compliance Monitoring Requirements [326 IAC 2-8-5(a)(1)]

D.9.8 Monitoring of Air Pollution Control Equipment Operational Parameters

That the control equipment shall be operated at all times when its associated facility is in operation. The Permittee shall take daily readings of the total static pressure drop across each baghouse (and HEPA where applicable) when the associated facility is in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the control equipment shall be maintained within the following range(s) in inches of water:

(Stack S-14)
Bag Filter No. 455: 0.1 - 5
HEPA: 0.1 - 10

The Preventive Maintenance Plan for each of control equipment shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with condition C.10 - Pressure Gauge Specifications, be subject to approval by HDEM and IDEM, and shall be zero balanced, at minimum, every six months.

D.9.9 Daily Visible Emissions Notations

Daily visible emission notations of each stack shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, 80 percent of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Preventive Maintenance Plan for these units shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

D.9.10 Broken Bag or Failure Detection

That in the event that bag failure has been observed:

(a) The affected compartments will be shut down immediately until the units have been replaced.
(b) Based upon the findings of the inspection, any additional corrective actions will be devised before the unit is restarted and will include a timetable for completion.

D.9.11 Periodic Emissions Testing

That the permittee shall perform lead emissions testing on stack ID S-14 every five (5) years in accordance with HDEM and IDEM requirements.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.9.12 Operational Parameters

That the Permittee shall maintain a daily record at the stationary source of the following values:

(a) differential static pressure across the control device;

(b) Cleaning cycle frequency;

(c) Visual stack emissions observations.

SECTION D.10 FACILITY OPERATION CONDITIONS

Stack ID S-15. (The process description is confidential. A detailed description is available in the confidential copy of the TSD). Particulate and lead emissions are controlled by a bag filter (No. 301).

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

D.10.1 Particulate Matter less than 10 microns in diameter (PM10)
State That pursuant to 326 IAC 6-1-10.1 (Lake County PM10 emission requirements), the PM10 emissions for stack ID S-15 shall be limited to 0.022 gr/dscf and 0.200 lbs/hr as specifically listed in 326 IAC 6-1-10.1(d).

D.10.2 Particulate Matter less than 10 microns in diameter (PM10)
State/Federal
That the baghouse shall be operated at all times when the associated facility is in operation. Operation of the air pollution control equipment according to the compliance monitoring requirements of this permit will ensure that the source total PM10 emissions stay below 100 tons per year. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.10.3 Particulate Matter (PM)
State That pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended), particulate matter emissions from each facility shall be set equal to the PM10 emission limits and that visible emissions from each facility shall not exceed 20% opacity.

D.10.4 Lead (Pb)
State That pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions for stack ID S-15 shall be limited to 0.04 lbs/hr as specifically listed in 326 IAC 15-1-2(a)(7).

D.10.5 Lead (Pb)
State/Federal
The baghouse shall be operated at all times when its associated facility is in operation. Operation of the air pollution control equipment according to the compliance monitoring requirements of this permit will ensure that the source total Pb emissions stay below 10 Tons per year. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.10.6 Preventive Maintenance Plan [326 IAC 2-8-4(9)]
State/Federal
A Preventive Maintenance Plan, in accordance with Condition B.13 of this permit, is required for this facility.

Testing Requirements [326 IAC 2-8-4(3)]

D.10.7 Stack ID S-15 Performance Testing
That no later than three (3) years after receipt of this permit, the Permittee shall perform a compliance test for lead emissions on stack S-15 in accordance with 326 IAC 3-2.1 and approved by HDEM and IDEM - OAM.

Compliance Monitoring Requirements [326 IAC 2-8-5(a)(1)]

D.10.8 Monitoring of Air Pollution Control Equipment Operational Parameters

That the control equipment shall be operated at all times when its associated facility is in operation. The Permittee shall take daily readings of the total static pressure drop across each baghouse (and HEPA where applicable) when the associated facility is in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the control equipment shall be maintained within the following range(s) in inches of water:

(Stack S-15)
Bag Filter No. 301: 0.1 - 5
HEPA: 0.1 - 10

The Preventive Maintenance Plan for each of control equipment shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with condition C.10 - Pressure Gauge Specifications, be subject to approval by HDEM and IDEM, and shall be zero balanced, at minimum, every six months.

D.10.9 Daily Visible Emissions Notations

Daily visible emission notations of each stack shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, 80 percent of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Preventive Maintenance Plan for these units shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

D.10.10 Broken Bag or Failure Detection

That in the event that bag failure has been observed:

(a) The affected compartments will be shut down immediately until the units have been replaced.
(b) Based upon the findings of the inspection, any additional corrective actions will be devised before the unit is restarted and will include a timetable for completion.

D.10.11 Periodic Emissions Testing

That the permittee shall perform lead emissions testing on stack ID S-15 every five (5) years in accordance with HDEM and IDEM requirements.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.10.12 Operational Parameters

That the Permittee shall maintain a daily record at the stationary source of the following values:

(a) differential static pressure across the control device;

(b) Cleaning cycle frequency;

(c) Visual stack emissions observations.

SECTION D.11 FACILITY OPERATION CONDITIONS

Stack ID S-16. (The process description is confidential. A detailed description is available in the confidential copy of the TSD). Each hopper is equipped with a bag filter (#650, 651, & 652, respectively).

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

D.11.1 Particulate Matter less than 10 microns in diameter (PM10)

State That pursuant to 326 IAC 6-1-10.1 (Lake County PM10 emission requirements), the PM10 emissions for stack ID S-16 shall be limited to 0.022 gr/dscf and 0.200 lbs/hr as specifically listed in 326 IAC 6-1-10.1(d).

D.11.2 Particulate Matter less than 10 microns in diameter (PM10)

State/Federal

That the baghouses shall be operated at all times when the associated facility is in operation. Operation of the air pollution control equipment according to the compliance monitoring requirements of this permit will ensure that the source total PM10 emissions stay below 100 tons per year. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.11.3 Particulate Matter (PM)

State That pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended), particulate matter emissions from each facility shall be set equal to the PM10 emission limits and that visible emissions from each facility shall not exceed 20% opacity.

D.11.4 Lead (Pb)

State That pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions for stack ID S-16 shall be limited to 0.04 lbs/hr as specifically listed in 326 IAC 15-1-2(a)(7).

D.11.5 Lead (Pb)

State/Federal

The baghouses shall be operated at all times when its associated facility is in operation. Operation of the air pollution control equipment according to the compliance monitoring requirements of this permit will ensure that the source total Pb emissions stay below 10 Tons per year. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.11.6 Preventive Maintenance Plan [326 IAC 2-8-4(9)]

State/Federal

A Preventive Maintenance Plan, in accordance with Condition B.13 of this permit, is required for this facility.

Testing Requirements [326 IAC 2-8-4(3)]

D.11.7 Stack ID S-16 Performance Testing

That no later than three (3) years after receipt of this permit, the Permittee shall perform a compliance test for lead emissions on stack S-16 in accordance with 326 IAC 3-2.1 and approved by HDEM and IDEM - OAM.

Compliance Monitoring Requirements [326 IAC 2-8-5(a)(1)]

D.11.8 Monitoring of Air Pollution Control Equipment Operational Parameters

That the control equipment shall be operated at all times when its associated facility is in operation. The Permittee shall take daily readings of the total static pressure drop across each baghouse (and HEPA where applicable) when the associated facility is in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the control equipment shall be maintained within the following range(s) in inches of water:

(Stack S-16)
Bag Filter No. 650: 0.1 - 10
Bag Filter No. 651: 0.1 - 10
Bag Filter No. 652: 0.1 - 10
HEPA: 0.1 - 10

The Preventive Maintenance Plan for each of control equipment shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with condition C.10 - Pressure Gauge Specifications, be subject to approval by HDEM and IDEM, and shall be zero balanced, at minimum, every six months.

D.11.9 Daily Visible Emissions Notations

Daily visible emission notations of each stack shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, 80 percent of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Preventive Maintenance Plan for these units shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

D.11.10 Broken Bag or Failure Detection

That in the event that bag failure has been observed:

(a) The affected compartments will be shut down immediately until the units have been replaced.
(b) Based upon the findings of the inspection, any additional corrective actions will be devised before the unit is restarted and will include a timetable for completion.

D.11.11 Periodic Emissions Testing

That the permittee shall perform lead emissions testing on stack ID S-16 every five (5) years in accordance with HDEM and IDEM requirements.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.11.12 Operational Parameters

That the Permittee shall maintain a daily record at the stationary source of the following values:

(a) differential static pressure across the control device;

(b) Cleaning cycle frequency;

(c) Visual stack emissions observations.

SECTION D.12 FACILITY OPERATION CONDITIONS

Stack ID S-17. (The process description is confidential. A detailed description is available in the confidential copy of the TSD). The bulk hopper (#390) is equipped with a bag filter (#392) and the two bag hoppers (#360 & 361) share a bag filter (#364). The surge hopper is equipped with a bag filter (#911). The three filters then vent to another bag filter (#430) followed by a HEPA filter.

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

D.12.1 Particulate Matter less than 10 microns in diameter (PM10)
State That pursuant to 326 IAC 6-1-10.1 (Lake County PM10 emission requirements), the PM10 emissions for stack ID S-17 shall be limited to 0.022 gr/dscf and 1.990 lbs/hr as specifically listed in 326 IAC 6-1-10.1(d).

D.12.2 Particulate Matter less than 10 microns in diameter (PM10)
State/Federal
That the baghouses shall be operated at all times when the associated facility is in operation. Operation of the air pollution control equipment according to the compliance monitoring requirements of this permit will ensure that the source total PM10 emissions stay below 100 tons per year. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.12.3 Particulate Matter (PM)
State That pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended), particulate matter emissions from each facility shall be set equal to the PM10 emission limits and that visible emissions from each facility shall not exceed 20% opacity.

D.12.4 Lead (Pb)
State That pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions for stack ID S-17 shall be limited to 0.07 lbs/hr as specifically listed in 326 IAC 15-1-2(a)(7).

D.12.5 Lead (Pb)
State/Federal
The baghouses shall be operated at all times when its associated facility is in operation. Operation of the air pollution control equipment according to the compliance monitoring requirements of this permit will ensure that the source total Pb emissions stay below 10 Tons per year. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.12.6 Preventive Maintenance Plan [326 IAC 2-8-4(9)]
State/Federal
A Preventive Maintenance Plan, in accordance with Condition B.13 of this permit, is required for this facility.

Testing Requirements [326 IAC 2-8-4(3)]

D.12.7 Stack ID S-17 Performance Testing
That no later than three (3) years after receipt of this permit, the Permittee shall perform a compliance test for lead emissions on stack S-17 in accordance with 326 IAC 3-2.1 and approved by HDEM and IDEM - OAM.

Compliance Monitoring Requirements [326 IAC 2-8-5(a)(1)]

D.12.8 Monitoring of Air Pollution Control Equipment Operational Parameters

That the control equipment shall be operated at all times when its associated facility is in operation. The Permittee shall take daily readings of the total static pressure drop across each baghouse (and HEPA where applicable) when the associated facility is in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the control equipment shall be maintained within the following range(s) in inches of water:

(Stack S-17)
Bag Hopper Bag Filter No. 364: 0.1 - 5
Bulk Hopper Bag Filter No. 392: 0.1 - 5
Surge Hopper Bag Filter No. 911: 0.2 - 5
Exhaust Bag Filter No. 430: 0.1 - 5
HEPA: 0.1 - 10

The Preventive Maintenance Plan for each of control equipment shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with condition C.10 - Pressure Gauge Specifications, be subject to approval by HDEM and IDEM, and shall be zero balanced, at minimum, every six months.

D.12.9 Daily Visible Emissions Notations

Daily visible emission notations of each stack shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, 80 percent of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Preventive Maintenance Plan for these units shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

D.12.10 Broken Bag or Failure Detection

That in the event that bag failure has been observed:

(a) The affected compartments will be shut down immediately until the units have been replaced.
(b) Based upon the findings of the inspection, any additional corrective actions will be devised before the unit is restarted and will include a timetable for completion.

D.12.11 Periodic Emissions Testing

That the permittee shall perform lead emissions testing on stack ID S-17 every five (5) years in accordance with HDEM and IDEM requirements.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.12.12 Operational Parameters

That the Permittee shall maintain a daily record at the stationary source of the following values:

(a) differential static pressure across the control device;

(b) Cleaning cycle frequency;

(c) Visual stack emissions observations.

SECTION D.13 FACILITY OPERATION CONDITIONS

Stack IDs S-18 and S-19. (The process description is confidential. A detailed description is available in the confidential copy of the TSD). There are no control equipment associated with these units.

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

D.13.1 Particulate Matter less than 10 microns in diameter (PM10)

State That pursuant to 326 IAC 6-1-10.1 (Lake County PM10 emission requirements), the PM10 emissions for stack IDs S-18 and S-19 shall be limited to 0.003 lbs/MMBtu and 0.008 lbs/hr, per stack, as specifically listed in 326 IAC 6-1-10.1(h) and shall fire natural gas only.

D.13.2 Particulate Matter (PM)

State That pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended), particulate matter emissions from each facility shall be set equal to the PM10 emission limits and that visible emissions from each facility shall not exceed 20% opacity.

There are no federal requirements that apply to these facilities.

Testing Requirements [326 IAC 2-8-4(3)]

D.13.3 There are no testing requirements necessary for these facilities.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.13.4 Operational Parameters

That the Permittee shall maintain a monthly record of the fuel usage for each boiler. These records shall be made available upon request by HDEM or IDEM - OAM within thirty (30) days after the request is made.

SECTION D.14 FACILITY OPERATION CONDITIONS

Stack ID S-21. (The process description is confidential. A detailed description is available in the confidential copy of the TSD). Particulate and lead emissions are controlled by a HEPA filter.

Emissions Limitations and Standards [326 IAC 2-8-4(1)]

D.14.1 Particulate Matter less than 10 microns in diameter (PM10)
State That pursuant to Construction Permit #00091, issued on March 11, 1996, the PM10 emissions for stack ID S-21 shall be limited to 0.022 gr/dscf and 1.290 lbs/hr.

D.14.2 Particulate Matter less than 10 microns in diameter (PM10)
State/Federal
That the HEPA shall be operated at all times when the associated facility is in operation. Operation of the air pollution control equipment according to the compliance monitoring requirements of this permit will ensure that the source total PM10 emissions stay below 100 tons per year. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.14.3 Particulate Matter (PM)
State That pursuant to the Hammond Air Quality Control Ordinance No. 3522 (as amended), particulate matter emissions from each facility shall be set equal to the PM10 emission limits and that visible emissions from each facility shall not exceed 20% opacity.

D.14.4 Lead (Pb)
State That pursuant to 326 IAC 15 (Lead Emission Limitations), the Pb emissions for stack ID S-21 shall be limited to 0.07 lbs/hr as specifically listed in 326 IAC 15-1-2(a)(7).

D.14.5 Lead (Pb)
State/Federal
The HEPA filter shall be operated at all times when its associated facility is in operation. Operation of the air pollution control equipment according to the compliance monitoring requirements of this permit will ensure that the source total Pb emissions stay below 10 Tons per year. Therefore, the Part 70 (326 IAC 2-7) rules do not apply.

D.14.6 Preventive Maintenance Plan [326 IAC 2-8-4(9)]
State/Federal
A Preventive Maintenance Plan, in accordance with Condition B.13 of this permit, is required for this facility.

Testing Requirements [326 IAC 2-8-4(3)]

D.14.7 Stack ID S-21 Performance Testing
That no later than three (3) years after receipt of this permit, the Permittee shall perform a compliance test for lead emissions on stack S-21 in accordance with 326 IAC 3-2.1 and approved by HDEM and IDEM - OAM.

Compliance Monitoring Requirements [326 IAC 2-8-5(a)(1)]

D.14.8 Monitoring of Air Pollution Control Equipment Operational Parameters

That the control equipment shall be operated at all times when its associated facility is in operation. The Permittee shall take daily readings of the total static pressure drop across each baghouse (and HEPA where applicable) when the associated facility is in operation. Unless operated under conditions for which the Preventive Maintenance Plan specifies otherwise, the pressure drop across the control equipment shall be maintained within the following range(s) in inches of water:

(Stack S-21)
HEPA: 0.1 - 10

The Preventive Maintenance Plan for each of control equipment shall contain troubleshooting contingency and corrective actions for when the pressure reading is outside of the above mentioned range for any one reading.

The instrument used for determining the pressure shall comply with condition C.10 - Pressure Gauge Specifications, be subject to approval by HDEM and IDEM, and shall be zero balanced, at minimum, every six months.

D.14.9 Daily Visible Emissions Notations

Daily visible emission notations of each stack shall be performed during normal daylight operations. A trained employee will record whether emissions are normal or abnormal. For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, 80 percent of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Preventive Maintenance Plan for these units shall contain troubleshooting contingency and corrective actions for when an abnormal emission is observed.

D.14.10 Broken Bag or Failure Detection

That in the event that bag failure has been observed:

(a) The affected compartments will be shut down immediately until the units have been replaced.
(b) Based upon the findings of the inspection, any additional corrective actions will be devised before the unit is restarted and will include a timetable for completion.

D.14.11 Periodic Emissions Testing

That the permittee shall perform lead emissions testing on stack ID S-21 every five (5) years in accordance with HDEM and IDEM requirements.

Record Keeping and Reporting Requirements [326 IAC 2-8-4(3)]

D.14.12 Operational Parameters

That the Permittee shall maintain a daily record at the stationary source of the following values:

(a) differential static pressure across the control device;

(b) Cleaning cycle frequency;

(c) Visual stack emissions observations.

State Form 47738 (5-96)

HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
- AIR POLLUTION CONTROL DIVISION -
and
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION

FEDERALLY ENFORCEABLE STATE OPERATION PERMIT (FESOP)
CERTIFICATION

Source Name: **Halstab a division of Hammond Group, Inc. (HGI)**
Source Address: 3100 Michigan Street, Hammond, Indiana 46323
FESOP No.: **F089-5456-00218**

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

_ Deviation Occurrence Reporting Form (For Control Equipment Monitoring)

_ Deviation Occurrence Reporting Form (For Material Usage, Quality, Etc.)

_ Relocation Notification

_ Test Result (specify)

_ Report (specify)

_ Notification (specify)

_ Other (specify)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted . Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

State Form 47739 (5-96)

HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
- AIR POLLUTION CONTROL DIVISION -
AND
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP)
DEVIATION OCCURRENCE REPORTING FORM
(For Control Equipment Monitoring Only)

Source Name: Halstab a division of **Hammond Group, Inc. (HGI)**
Source Address: 3100 Michigan Street, Hammond, Indiana 46323
FESOP No.: **F089-5456-00218**

A separate copy of this report must be submitted for **each** monitoring device on all control equipment listed in this permit. Attach a signed certification to complete this report.

Stack/Vent ID:
Control Equipment:
(ex: thermal oxidizer, scrubber, baghouses)
Type of Parameter Monitored:
(ex: temperature, pressure drop, efficiency)
_ Continuously _ Periodically, at a frequency of:
Parameter Operating Restrictions/Range:
(ex: 1,400^{0}F, 2-4 psi pressure drop)

Report Covers From: To:
(date: month/day/yr)

_ No Deviations from the Parameter Restriction/Range Occurred During the Monitoring Period. Complete Records Maintained at the Facility Verify Compliance with this Condition.

_ Summary of Deviations from the Parameter Restriction/Range During the Monitoring Period are Identified Below. Complete Records Maintained at the Facility.

	For Parameter Recorded Continuously	For Parameter Recorded Periodically
Total Unit Operating Time		
Total Time of Deviations (Identify All Deviations)		
Percent of Time Indicating Deviations ([2]/[1]x100)		

Date of Deviation	Start/Stop Time of Deviation (Continuous Monitoring Only)	Actual Value Recorded	Reason for Deviation & Corrective Action Taken

State Form 47741 (5-96)

HAMMOND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
- AIR POLLUTION CONTROL DIVISION -
AND
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT (FESOP) DEVIATION OCCURRENCE REPORTING FORM

Source Name: **Halstab a division of Hammond Group, Inc. (HGI)**
Source Address: 3100 Michigan Street, Hammond, Indiana 46323
FESOP No.: **F089-5456-00218**

A separate copy of this report must be submitted for **each** material type, quantity usage and operation limitation (except control equipment monitoring) listed in this permit . Attach a signed certification to complete this report.

Stack/Vent ID:
Equipment/Operation:
Parameter Subject to Material Type, Quantity Usage or Operation Limitations Specified in the Permit:
(ex: 2500 lb/day, 300 hours/yr, 5000 gallons/month)

Determination Period for this Parameter:
(ex: 365-day rolling sum, fixed monthly rate)

_ Permit Has No Rate Limitations for this Parameter.
Content Restriction for this Parameter:
(ex: maximum of 40% VOC in inks, 0.5% sulfur content)

Demonstration Method for this Parameter:
(ex: MSDS, Supplier, material sampling & analysis)

_ Permit Has No Content Limitations for this Parameter.
Comments:

1/18/96

Hammond Department of Environmental Management
- Air Pollution Control Division -

Technical Support Document (TSD) for a Federally Enforceable State Operating Permit (FESOP)

Source Name: **Halstab a Division of Hammond Group, Inc. – Hammond Facility**
Source Location: **3100 Michigan Street, Hammond, Indiana 46323**
County: **Lake**
Operation Permit No.: **F089-5456-00218**
Permit Reviewer: **Jean Ziga, HDEM**

The Hammond Department of Environmental Management (HDEM) has reviewed a Federally Enforceable State Operating Permit (FESOP) application from Halstab Division of Hammond Group, Inc. relating to the operation of a **Chemicals and Allied Products Production Plant.**

The source consists of the following twenty (20) **emission units and associated pollution control devices**:

1) Stack ID S-1

(The process description is confidential. A detailed description is available in the confidential copy). Particulate and lead emissions are controlled by a bag filter (No. 121) followed by a HEPA filter.

2) Stack ID S-2

(The process description is confidential. A detailed description is available in the confidential copy). Particulate and lead emissions are controlled by a bag filter (No. 115) followed by a HEPA filter.

3) Stack ID S-3

(The process description is confidential. A detailed description is available in the confidential copy). There are no emissions controls on this unit.

4) Stack ID S-4

(The process description is confidential. A detailed description is available in the confidential copy). Particulate and lead emissions are controlled by a bag filter (No. 204). Halstab has voluntarily proposed to install and operate a HEPA filter to follow the bag filter by the end of 1996.

5) Stack ID S-5

(The process description is confidential. A detailed description is available in the confidential copy). Particulate and lead emissions are controlled by a bag filter (No. 226) followed by a HEPA filter.

6) Stack ID S-6

(The process description is confidential. A detailed description is available in the confidential copy). Particulate and lead emissions are controlled by a bag filter (No. 209). Halstab has voluntarily proposed to install and operate a HEPA filter to follow the bag filter by the end of 1996.

7) Stack ID S-7

(The process description is confidential. A detailed description is available in the confidential copy). Particulate and lead emissions are controlled by a bag filter (No. 236) followed by a HEPA filter.

8) Stack ID S-8

(The process description is confidential. A detailed description is available in the confidential copy). Particulate and lead emissions are controlled by a bag filter (No. 247) followed by a HEPA filter.

9) Stack ID S-9

(The process description is confidential. A detailed description is available in the confidential copy). Particulate and lead emissions are controlled by a bag filter (No. 317). Halstab has voluntarily proposed to install and operate a HEPA filter to follow the bag filter by the end of 1996.

10) Stack ID S-10

(The process description is confidential. A detailed description is available in the confidential copy). Particulate and lead emissions are controlled by a bag filter (No. 318). Halstab has voluntarily proposed to install and operate a HEPA filter to follow the bag filter by the end of 1996.

11) Stack ID S-11

(The process description is confidential. A detailed description is available in the confidential copy). Particulate and lead emissions are controlled by a bag filter (No. 319). Halstab has voluntarily proposed to install and operate a HEPA filter to follow the bag filter by the end of 1996.

12) Stack ID S-12

(The process description is confidential. A detailed description is available in the confidential copy). Particulate and lead emissions are controlled by a bag filter (No. 506) followed by a HEPA filter.

13) Stack ID S-13

(The process description is confidential. A detailed description is available in the confidential copy). Each hopper is equipped with a bag filter (#653, 654, & 655 respectively. Halstab has voluntarily proposed to install and operate a HEPA filter to follow the bag filters by the end of 1996.

14) Stack ID S-14

(The process description is confidential. A detailed description is available in the confidential copy). Particulate and lead emissions are controlled by a bag filter (No. 455). Halstab has voluntarily proposed to install and operate a HEPA filter to follow the bag filter by the end of 1996.

15) Stack ID S-15

(The process description is confidential. A detailed description is available in the confidential copy). Particulate and lead emissions are controlled by a bag filter (No. 301). Halstab has voluntarily proposed to install and operate a HEPA filter to follow the bag filter by the end of 1996.

16) Stack ID S-16

(The process description is confidential. A detailed description is available in the confidential copy). Each hopper is equipped with a bag filter (No. 650, 651, & 652 respectively). Halstab has voluntarily proposed to install and operate a HEPA filter to follow the bag filters by the end of 1996.

17) Stack ID S-17

(The process description is confidential. A detailed description is available in the confidential copy). The bulk hopper (#390) is equipped with a bag filter (#392) and the two bag hoppers (#360 & 361) share a bag filter (#364). The surge hopper is equipped with a bag filter (#911). These filters then vent to another bag filter (#430) followed by a HEPA filter.

18) Stack ID S-18

(The process description is confidential. A detailed description is available in the confidential copy). There are no control equipment associated with this unit.

19) Stack ID S-19

(The process description is confidential. A detailed description is available in the confidential copy). There are no control equipment associated with this unit.

20) Stack ID S-21

(The process description is confidential. A detailed description is available in the confidential copy). Particulate and lead emissions are controlled by a HEPA filter.

TABLE 1: Permit Emission Limits by Stack ID

Stack ID	PM10 Limit (lbs/hr)	PM10 Limit (TPY)	PM10 Regulation	Pb Limit (lbs/hr)	Pb Limit (TPY)	Pb Regulation
1) Stack ID S-1	0.220	0.964	326 IAC 6-1-10.1(d)	0.040	0.175	326 IAC 15-1-2(a)(7)
2) Stack ID S-2	0.080	0.350	326 IAC 6-1-10.1(d)	0.030	0.131	326 IAC 15-1-2(a)(7)
3) Stack ID S-3	0.970	4.249	Hammond AQC Ordinance	N/A	N/A	N/A
4) Stack ID S-4	1.460	6.395	326 IAC 6-1-10.1(d)	0.070	0.307	326 IAC 15-1-2(a)(7)
5) Stack ID S-5	1.030	4.511	326 IAC 6-1-10.1(d)	0.070	0.307	326 IAC 15-1-2(a)(7)
6) Stack ID S-6	0.570	2.497	326 IAC 6-1-10.1(d)	0.050	0.219	326 IAC 15-1-2(a)(7)
7) Stack ID S-7	0.570	2.497	326 IAC 6-1-10.1(d)	0.050	0.219	326 IAC 15-1-2(a)(7)
8) Stack ID S-8	0.570	2.497	326 IAC 6-1-10.1(d)	0.050	0.219	326 IAC 15-1-2(a)(7)
9) Stack ID S-9	0.200	0.876	326 IAC 6-1-10.1(d)	0.040	0.175	326 IAC 15-1-2(a)(7)
10) Stack ID S-10	0.200	0.876	326 IAC 6-1-10.1(d)	0.040	0.175	326 IAC 15-1-2(a)(7)
11) Stack ID S-11	0.200	0.876	326 IAC 6-1-10.1(d)	0.040	0.175	326 IAC 15-1-2(a)(7)
12) Stack ID S-12	0.200	0.876	326 IAC 6-1-10.1(d)	0.040	0.175	326 IAC 15-1-2(a)(7)
13) Stack ID S-13	0.200	0.876	326 IAC 6-1-10.1(d)	0.040	0.175	326 IAC 15-1-2(a)(7)
14) Stack ID S-14	0.200	0.876	326 IAC 6-1-10.1(d)	0.040	0.175	326 IAC 15-1-2(a)(7)
15) Stack ID S-15	0.200	0.876	326 IAC 6-1-10.1(d)	0.040	0.175	326 IAC 15-1-2(a)(7)
16) Stack ID S-16	0.200	0.876	326 IAC 6-1-10.1(d)	0.040	0.175	326 IAC 15-1-2(a)(7)
17) Stack ID S-17	1.990	8.716	326 IAC 6-1-10.1(d)	0.070	0.307	326 IAC 15-1-2(a)(7)
18) Stack ID S-18	0.008	0.035	326 IAC 6-1-10.1(h)	N/A	N/A	N/A
19) Stack ID S-19	0.008	0.035	326 IAC 6-1-10.1(h)	N/A	N/A	N/A
20) Stack ID S-21	1.290	5.648	Hammond AQC Ordinance	0.070	0.307	326 IAC 15-1-2(a)(7)
Totals:	**10.366**	**45.401**		**0.820**	**3.592**	

The source also includes the following **insignificant activities**:

1) Natural gas-fired combustion sources with heat input equal to or less than ten million (10,000,000) Btu per hour.

2) Propane or liquefied petroleum gas, or butane-fired combustion sources with heat input equal to or less than six million (6,000,000) Btu per hour.

3) Combustion source flame safety purging on startup.

4) Storage tanks with capacity less than or equal to 1,000 gallons and annual throughputs less than 12,000 gallons.

5) Vessels storing lubricating oils, hydraulic oils, machining oils, and machining fluids.

6) Application of oils, greases, lubricants or other nonvolatile materials applied as temporary protective coatings.

7) Degreasing operations that do not exceed 145 gallons per 12 months, except if subject to 326 IAC 20-6.

8) Cleaners and solvents characterized as follows:

A) having a vapor pressure equal to or less than 2 kPa; 15 mm Hg; or 0.3 psi measured at 38 degrees C (100 °F) or;

B) having a vapor pressure equal to or less than 0.7 kPa; 5 mm Hg; or 0.1 psi measured at 20 °C (68 °F); the use of which for all cleaners and solvents combined does not exceed 145 gallons per 12 months.

9) The following equipment related to manufacturing activities not resulting in the emission of HAPs: brazing equipment, cutting torches, soldering equipment, welding equipment.

10) Closed loop heating and cooling systems.

11) Activities associated with the treatment of wastewater streams with an oil and grease content less than or equal to 1 % by volume.

12) Any operation using aqueous solutions containing less than 1 % by weight of VOCs excluding HAPs.

13) Water based adhesives that are less than or equal to 5% by volume of VOCs excluding HAPs.

14) Replacement or repair of bags or baghouses and filters in other air filtration equipment.

15) Heat exchanger cleaning and repair.

16) Process vessel degassing and cleaning to prepare for internal repairs.

17) Paved and unpaved roads and packing lots with public access.

18) Purging of gas lines and vessels that is related to routine maintenance and repair of buildings, structures, or vehicles at the source where air emissions from those activities would not be associated with any production process.

19) Equipment used to collect any material that might be released during a malfunction, process upset, or spill cleanup, including catch tanks, temporary liquid separators, tanks, and fluid handling equipment.

20) Blowdown for any of the following: sight glass; boilers; compressors; pumps; and cooling tower.

21) On-site fire and emergency response training approved by the department.

22) Purge double block and bleed valves.

23) Filter or coalescer media changeout.

24) A laboratory as defined in 326 IAC 2-7-1(20)(C).

Enforcement Issue

This source is currently in violation of 326 IAC 15-1-2(a)(7) for stack ID (S-13). The source has exceeded the quarterly operating hour limitation for this stack. Enforcement actions have been initiated by IDEM.

Recommendation

The staff recommends to the Commissioner that the FESOP be approved. This recommendation is based on the following facts and conditions:

Information, unless otherwise stated, used in this review was derived from the application and additional information submitted by the applicant.

A complete FESOP application for the purposes of this review was received on **March 14, 1996.**

Potential to Emit (PTE) Calculations

See Appendix A, Potential to Emit (PTE) Calculation for detailed calculations.

Total PTE

PTE is defined as "the maximum capacity of a stationary source to emit a pollutant under its physical and operational design." [326 IAC 2-7-1(28)]

Pollutant	PTE (tons/year)
PM	2,036.925
PM-10	2,036.925
SO_2	0.038
VOC	0.428
CO	1.317
NO_x	6.353

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

HAP	PTE (tons/year)
Lead (Pb)	1,203.406
TOTAL HAPs	1,203.406

The potential to emit (as defined in the Indiana Rule) of Particulate Matter less than 10 microns in diameter (PM10) is greater than 100 tons per year. Also, the po.tential to emit (as defined in Indiana Rule) of any single HAP (Lead) is greater than 10 tons/year. Therefore, the source is subject to the provisions of 326 IAC 2-7-1.

A source with "potential to emit" high enough to make it a "major source" but whose actual emissions are below the Part 70 emission levels may elect to avoid the Part 70 Operating Permit

Program by agreeing to accept a permit with federally enforceable limits that restrict its PTE to below the major source emission levels. The permit containing these restrictions is called a Federally Enforceable State Operating Permit (FESOP).

County Attainment Status

The source is located in **Lake County.**

Pollutant	Status **(attainment or unclassifiable/ severe, moderate, marginal, or maintenance nonattainment)**
TSP	Primary Nonattainment
PM-10	Moderate Nonattainment
SO_2	Primary Nonattainment
Ozone	Severe Nonattainment
CO	Unclassifiable/Attainment
NO2	Severe Nonattainment
Pb	Unclassifiable

Limited PTE

The source has a federally enforceable **PM10** limit of 45.401 tons per year and 3.592 tons per year for **lead (Pb)**.

*See Table 1 above for Limits per facility.

	Limited PTE (tons/year)						
	PM	PM-10	SO2	VOC	CO	NOx	HAPs (Pb)
Total Emissions	45.401	45.401	N/A	N/A	N/A	7	3.592

PM10 emissions are limited in accordance with 326 IAC 6-1-10.1. PM emissions were set equal to the PM10.

Lead emissions are limited in accordance with 326 IAC 15-1-2(a)(7).

SO2, VOC, and CO emissions are negligible.

NOx emissions are limited to the source's PTE, raised to the next whole number. These pollutants are not limited by any applicable regulations and do not exceed the major source thresholds.

Attached Tables **2** to **15** summarize the permit conditions and requirements.

Federal Rule Applicability

There are no New Source Performance Standards (326 IAC 12) applicable to any facility in this source.

There are no National Emission Standards of Hazardous Air Pollutants (326 IAC 14) applicable to any facility in the source.

State Rule Applicability

326 IAC 2-6
Pursuant to this rule, this source is required to submit a certified, annual emission statement.

326 IAC 5-1-2 (Visible Emission Limitations)
Pursuant to this rule, visible emissions shall not exceed an average of 20% opacity in 24 consecutive readings.

326 IAC 6-1-10.1
This rule limits PM10 emissions from each stack at the source as listed in 326 IAC 6-1-10.1(d) and (h).

326 IAC 15-1-2
This rule limits lead (Pb) emissions from stacks associated with the Oxide Division as stipulated in 326 IAC 15-1-2(a)(7).

Compliance Monitoring

1. Compliance stack tests are required on the following facilities to demonstrate compliance with the applicable lead (Pb) emission limits. All performance testing is required initially within three (3) years after receipt of the permit and then periodically, every five (5) years.

a) Stack ID S-1
b) Stack ID S-2
c) Stack IDs S-4 & S-5. Initial stack testing on Stack ID S-4. Periodic on one of the two systems.
d) Stack IDs S-6, S-7, & S-8. Initial stack testing on Stack ID S-6. Periodic on one of the three lines.
e) Stack IDs S-9, S-10, & S-11. One of the three systems for initial and periodic.
f) Stack ID S-12
g) Stack ID S-13
h) Stack ID S-14
i) Stack ID S-15
j) Stack ID S-16
k) Stack ID S-17
l) Stack ID S-21

This monitoring condition is necessary to ensure compliance with 326 IAC 15 (Lead Emission Limitations) and 326 IAC 2-8 (FESOP).

2. The following facilities have applicable compliance monitoring conditions as specified below:

a) The total static pressure drop across the control equipment must be measured and recorded daily. The pressure drop for the units shall be maintained within the following ranges in inches of water.

Control Unit ID	ΔP range (inches of water)
Stack ID S-1	
Bag Filter No. 121	0.1 - 10
HEPA	0.1 - 10
Stack ID S-2	
Bag Filter No. 115	0.1 - 10
HEPA	0.1 - 10
Stack ID S-4	
Bag Filter No. 204	0.5 - 4.0
Stack ID S-5	
Bag Filter No. 226	0.5 - 4.0
Stack ID S-6	
Bag Filter No. 209	1.5 - 5.0
Stack ID S-7	
Bag Filter No. 236	0.5 - 3.0
Stack ID S-8	
Bag Filter No. 247	4.0 - 7.0
Stack ID S-9	
Bag Filter No. 317	1.0 - 4.0
Stack ID S-10	
Bag Filter No. 318	0.5 - 3.0
Stack ID S-11	
Bag Filter No. 319	1.0 - 4.0
Stack ID S-12	
Bag Filter No. 506	0.5 - 3.0
Stack ID S-13	
Bag Filter No. 653	1.0 - 4.0
Bag Filter No. 654	1.0 - 4.0
Bag Filter No. 655	1.0 - 4.0
Stack ID S-14	
Bag Filter No. 455	0.5 - 3.0
Stack ID S-15	
Bag Filter No. 301	1.0 - 4.0
Stack ID S-16	
Bag Filter No. 650	0.5 - 3.5
Bag Filter No. 651	0.5 - 1.5
Bag Filter No. 652	0.5 - 3.0
Stack ID S-17	
Bag Hopper Bag Filter No. 364	1.0 - 4.0
Bulk Hopper Bag Filter	2.0 - 4.0

No. 392	
Exhaust Bag Filter No. 430	0.2 - 2.0
Stack ID S-21	
HEPA	0.1 - 10

Upon installation of HEPA filters, the pressure drop across the control equipment shall be maintained within the following ranges in inches of water:

Control Unit ID	**∆P range (inches of water)**
Stack ID S-1	
Bag Filter No. 121	0.1 - 10
HEPA	0.1 - 10
Stack ID S-2	
Bag Filter No. 115	0.1 - 10
HEPA	0.1 - 10
Stack ID S-4	
Bag Filter No. 204	0.1 - 5
HEPA	0.1 - 10
Stack ID S-5	
Bag Filter No. 226	0.1 - 10
HEPA	0.1 - 10
Stack ID S-6	
Bag Filter No. 209	0.1 - 10
HEPA	0.1 - 10
Stack ID S-7	
Bag Filter No. 236	0.1 - 5
HEPA	0.1 - 10
Stack ID S-8	
Bag Filter No. 247	0.1 - 10
HEPA	0.1 - 10
Stack ID S-9	
Bag Filter No. 317	0.1 - 5
HEPA	0.1 - 10
Stack ID S-10	
Bag Filter No. 318	0.1 - 5
HEPA	0.1 - 10
Stack ID S-11	
Bag Filter No. 319	0.1 - 10
HEPA	0.1 - 10
Stack ID S-12	
Bag Filter No. 506	0.1 - 5
HEPA	0.1 - 10
Stack ID S-13	
Bag Filter No. 653	0.1- 5
Bag Filter No. 654	0.1 - 5
Bag Filter No. 655	0.1 - 10

HEPA	0.1 - 10
Stack ID S-14	
Bag Filter No. 455	0.1 - 5
HEPA	0.1 - 10
Stack ID S-15	
Bag Filter No. 301	0.1 - 5
HEPA	0.1 - 10
Stack ID S-16	
Bag Filter No. 650	0.1 - 10
Bag Filter No. 651	0.1 - 10
Bag Filter No. 652	0.1 - 10
HEPA	0.1 - 10
Stack ID S-17	
Bag Hopper Bag Filter No. 364	0.1 - 5
Bulk Hopper Bag Filter No. 392	0.1 - 5
Surge Hopper Bag Filter No. 911	0.2 - 5
Exhaust Bag Filter No. 430	0.1 - 5
HEPA	0.1 - 10
Stack ID S-21	
HEPA	0.1 - 10

If the pressure drop is outside this range for more than two consecutive readings, corrective action shall be taken in accordance with the Preventive Maintenance Plan.

b) Daily visual stack emission notations are required for all stacks, except S-18 & S-19. This includes stacks S-1 through 17 and S-21.

c) Quarterly reports shall be submitted to HDEM and OAM, Compliance Section. These reports shall include the pressure drop readings, cleaning cycle frequency, and visual stack emission notations.

These monitoring conditions are necessary because the particulate matter control equipment associated with each facility must be operated properly to ensure compliance with 326 IAC 6-1-10.1 (Lake County PM10 emission requirements), 326 IAC 15-1-2 (Source-specific lead provision), and 326 IAC 2-8 (FESOP).

3. The two (2) Boilers (No. 1 & 2) shall be required to record and maintain the monthly fuel usage. These shall be submitted upon request by HDEM or IDEM.

Air Toxic Emissions

Indiana presently requests applicants to provide information on emissions of the 189 hazardous air pollutants set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Management (OAM) FESOP Application GSD-08.

This source has accepted federally enforceable air toxic emission limits of less than 9 tons per year for any single HAP and less than 24 tons per year for any combination of HAPs.

Conclusion

The operation of this **Chemicals and Allied Products Production Plant (Industrial Inorganic Chemicals Manufacturing Plant)** will be subject to the conditions of the attached proposed **FESOP No. F089-5456-00218.**

Table 2

Stack/Vent ID:	**S-1**			
Stack/Vent Dimensions:	Ht: 65 ft	Dia: 0.7 ft	Temp: 70°F	Flow: 878 ACFM
Emission Unit:				
Date of Construction:	November, 1981			
Alternative Scenario:	None			
Pollution Control Equipment:	Bag Filter (No. 121) & HEPA			
General Description of Requirement:	PM10 & PM emission limits	Pb emission limit		
Numerical Emission Limit:	PM & PM10: 0.022 gr/dscf; 0.220 lbs/hr	Pb: 0.04 lbs/hr		
Regulation/Citation:	326 IAC 6-1-10.1(d)	326 IAC 15-1-2(a)(7)		
Compliance Demonstration:	Monitoring of Operational Parameters	Compliance Testing for Pb emissions		
PERFORMANCE TESTING				
Parameter/Pollutant to be Tested:		Lead (Pb)		
Testing Method/Analysis:		In accordance with 326 IAC 3-2.1		
Testing Frequency/Schedule:		Every 5 years		
Submittal of Test Results:		w/in 45 days of the test		
COMPLIANCE MONITORING				
Monitoring Description:	Inlet/outlet differential static pressure on control equipment			Visual Stack Notations
Monitoring Method:	Recording and Reporting			Visual Notation
Monitoring Regulation/Citation:	326 IAC 2-8-5(a)(1)			326 IAC 2-8-5(a)(1)
Monitoring Frequency:	Daily			Daily
Parameter/Pollutant to be Recorded:	Inlet/outlet differential static pressure			Stack Condition as “Normal” or “Above Normal”
Recording Frequency:	Daily			Daily
Submittal Schedule of Reports:	Quarterly reporting			Quarterly reporting
Information in Report:	Pressure Drop			Stack Notations
Reporting Frequency/Submittal:	Quarterly			Quarterly
Additional Comments:				

Table 3

Stack/Vent ID:	**S-2**			
Stack/Vent Dimensions:	Ht: 65 ft	Dia: 0.67 ft	Temp: 70°F	Flow: 400 ACFM
Emission Unit:				
Date of Construction:	November, 1981			
Alternative Scenario:	None			
Pollution Control Equipment:	Bag Filter (No. 115) & HEPA			
General Description of Requirement:	PM10 & PM emission Limits	Pb emission limit		
Numerical Emission Limit:	PM & PM10: 0.022 gr/dscf; 0.080 lbs/hr	Pb: 0.03 lbs/hr		
Regulation/Citation:	326 IAC 6-1-10.1(d)	326 IAC 15-1-2(a)(7)		
Compliance Demonstration:	Monitoring of Operational Parameters	Compliance Testing for Pb emissions		
PERFORMANCE TESTING				
Parameter/Pollutant to be Tested:				
Testing Method/Analysis:				
Testing Frequency/Schedule:				
Submittal of Test Results:				
COMPLIANCE MONITORING				
Monitoring Description:	Inlet/outlet differential static Pressure on control equipment		Visual Stack Notations	
Monitoring Method:	Recording and Reporting		Visual Notation	
Monitoring Regulation/Citation:	326 IAC 2-8-5(a)(1)		326 IAC 2-8-5(a)(1)	
Monitoring Frequency:	Daily		Daily	
RECORD KEEPING				
Parameter/Pollutant to be Recorded:	Inlet/outlet differential static pressure		Stack Condition as “Normal” or “Above Normal”	
Recording Frequency:	Daily		Daily	
Submittal Schedule of Reports:	Quarterly reporting		Quarterly reporting	
REPORTING REQUIREMENTS				
Information in Report:	Pressure drop		Stack Notations	
Reporting Frequency/Submittal:	Quarterly		Quarterly	
Additional Comments:				

Table 4

Stack/Vent ID:	**S-3**			
Stack/Vent Dimensions:	Ht: 65 ft	Dia: 0.7 ft	Temp: 70°F	Flow: 400 ACFM
Emission Unit:				
Date of Construction:	November, 1981			
Alternative Scenario:	None			
Pollution Control Equipment:	None			
General Description of Requirement:	PM10 & PM emission Limits			
Numerical Emission Limit:	PM & PM10: 0.970 lbs/hr			
Regulation/Citation:	Hammond AQC Ordinance			
Compliance Demonstration:	Visual Stack Notations			
PERFORMANCE TESTING				
Parameter/Pollutant to be Tested:				
Testing Method/Analysis:				
Testing Frequency/Schedule:				
Submittal of Test Results:				
COMPLIANCE MONITORING				
Monitoring Description:	Visual Stack Notations			
Monitoring Method:	Visual Notation			
Monitoring Regulation/Citation:	326 IAC 2-8-5(a)(1)			
Monitoring Frequency:	Daily			
RECORD KEEPING				
Parameter/Pollutant to be Recorded:	Stack Condition as “Normal” or “Above Normal”			
Recording Frequency:	Daily			
Submittal Schedule of Reports:	Quarterly reporting			
REPORTING REQUIREMENTS				
Information in Report:	Stack Notations			
Reporting Frequency/Submittal:	Quarterly			
Additional Comments:				

Table 5

Stack/Vent ID:	**S-4 & S-5**			
Stack/Vent Dimensions:	Ht: 75 ft each stack	Dia: 1.70 ft (S-4) Dia: 1.30 ft (S-5)	Temp: 220°F (S-4) Temp: 80°F (S-5)	Flow: 11100 ACFM Flow: 8000 ACFM
Emission Unit:				
Date of Construction:	November, 1981	June, 1998		
Alternative Scenario:	Propane Combustion	None		
Pollution Control Equipment:	Bag Filter (No. 204) & HEPA	Bag Filter (No. 226) & HEPA		
General Description of Requirement:	**Requirements for each stack:**	PM10 & PM emission Limits	Pb emission limit	
Numerical Emission Limit:		PM & PM10: 0.022 gr/dscf (both stacks); 1.460 lbs/hr (S-4); 1.030 lbs/hr (S-5)	Pb: 0.07 lbs/hr (each stack)	
Regulation/Citation:		326 IAC 6-1-10.1(d)	326 IAC 15-1-2(a)(7)	
Compliance Demonstration:		Monitoring of Operational Parameters	Compliance Testing for Pb emissions	
PERFORMANCE TESTING				
Parameter/Pollutant to be Tested:			Lead (Pb)	
Testing Method/Analysis:			In accordance with 326 IAC 3-2.1	
Testing Frequency/Schedule:			Every 5 years	
Submittal of Test Results:			w/in 45 days of the test	
COMPLIANCE MONITORING				
Monitoring Description:		Inlet/outlet differential static Pressure on control equipment		Visual Stack Notations
Monitoring Method:		Recording and Reporting		Visual Notation
Monitoring Regulation/Citation:		326 IAC 2-8-5(a)(1)		326 IAC 2-8-5(a)(1)
Monitoring Frequency:		Daily		Daily
RECORD KEEPING				
Parameter/Pollutant to be Recorded:		Inlet/outlet differential static pressure		Stack Condition as “Normal” or “Above Normal”
Recording Frequency:		Daily		Daily
Submittal Schedule of Reports:		Quarterly reporting		Quarterly reporting
REPORTING REQUIREMENTS				
Information in Report:		pressure drop reading		Stack Notations
Reporting Frequency/Submittal:		Quarterly		Quarterly
Additional Comments:				

Table 6

Stack/Vent ID:	**S-6, S-7, & S-8**			
Stack/Vent Dimensions:	Ht: 75 ft (each stack)	Dia: 1.20 ft (each stack)	Temp: 120°F (each stack)	Flow: 3500 ACFM (each stack)
Emission Unit:				
Date of Construction:	November, 1981	November, 1981	November, 1981	
Alternative Scenario:	None	None	None	
Pollution Control Equipment:	Bag Filter (No. 209)	Bag Filter (No. 236)	Bag Filter (No. 247)	
General Description of Requirement:	PM10 & PM emission Limits	Pb emission limit		
Numerical Emission Limit:	PM & PM10: 0.022 gr/dscf; 0.570 lbs/hr (each stack)	Pb: 0.05 lbs/hr (each stack)		
Regulation/Citation:	326 IAC 6-1-10.1(d)	326 IAC 15-1-2(a)(7)		
Compliance Demonstration:	Monitoring of Operational Parameters	Compliance Testing for Pb emissions		
PERFORMANCE TESTING				
Parameter/Pollutant to be Tested:		Lead (Pb)		
Testing Method/Analysis:		In accordance with 326 IAC 3-2.1		
Testing Frequency/Schedule:		Every 5 years		
Submittal of Test Results:		w/in 45 days of the test		
COMPLIANCE MONITORING				
Monitoring Description:	Inlet/outlet differential static Pressure on control equipment		Visual Stack Notations	
Monitoring Method:	Recording and Reporting		Visual Notation	
Monitoring Regulation/Citation:	326 IAC 2-8-5(a)(1)		326 IAC 2-8-5(a)(1)	
Monitoring Frequency:	Daily		Daily	
RECORD KEEPING				
Parameter/Pollutant to be Recorded:	Inlet/outlet differential static pressure		Stack Condition as “Normal” or “Above Normal”	
Recording Frequency:	Daily		Daily	
Submittal Schedule of Reports:	Quarterly reporting		Quarterly reporting	
REPORTING REQUIREMENTS				
Information in Report:	pressure drop reading		Stack Notations	
Reporting Frequency/Submittal:	Quarterly		Quarterly	
Additional Comments:				

Table 7

Stack/Vent ID:	**S-9, S-10, & S-11**			
Stack/Vent Dimensions:	Ht: 75 ft (each stack)	Dia: 0.6 ft (each stack)	Temp: 70°F (each stack)	Flow: 864 ACFM (each stack)
Emission Unit:				
Date of Construction:	November, 1981	November, 1981	November, 1981	
Alternative Scenario:	None	None	None	
Pollution Control Equipment:	Bag Filter (No. 317)	Bag Filter (No. 318)	Bag Filter (No. 319)	
General Description of Requirement:	PM10 & PM emission Limits	Pb emission limit		
Numerical Emission Limit:	PM & PM10: 0.022 gr/dscf; 0.200 lbs/hr (each stack)	Pb: 0.04 lbs/hr (each stack)		
Regulation/Citation:	326 IAC 6-1-10.1(d)	326 IAC 15-1-2(a)(7)		
Compliance Demonstration:	Monitoring of Operational Parameters	Compliance Testing for Pb emissions		
PERFORMANCE TESTING				
Parameter/Pollutant to be Tested:		Lead (Pb)		
Testing Method/Analysis:		In accordance with 326 IAC 3-2.1		
Testing Frequency/Schedule:		Every 5 years		
Submittal of Test Results:		w/in 45 days of the test		
COMPLIANCE MONITORING				
Monitoring Description:	Inlet/outlet differential static Pressure on control equipment			Visual Stack Notations
Monitoring Method:	Recording and Reporting			Visual Notation
Monitoring Regulation/Citation:	326 IAC 2-8-5(a)(1)			326 IAC 2-8-5(a)(1)
Monitoring Frequency:	Daily			Daily
Parameter/Pollutant to be Recorded:	Inlet/outlet differential static pressure			Stack Condition as “Normal” or “Above Normal”
Recording Frequency:	Daily			Daily
Submittal Schedule of Reports:	Quarterly reporting			Quarterly reporting
Information in Report:	pressure drop reading			Stack Notations
Reporting Frequency/Submittal:	Quarterly			Quarterly
Additional Comments:				

Table 8

Stack/Vent ID:	**S-12**			
Stack/Vent Dimensions:	Ht: 75 ft	Dia: 0.83 ft	Temp: 70°F	Flow: 686 ACFM
Emission Unit:				
Date of Construction:	November, 1981			
Alternative Scenario:	None			
Pollution Control Equipment:	Bag Filter (No. 506) & HEPA			
General Description of Requirement:	PM10 & PM emission Limits	Pb emission limit		
Numerical Emission Limit:	PM & PM10: 0.022 gr/dscf; 0.200 lbs/hr	Pb: 0.04 lbs/hr		
Regulation/Citation:	326 IAC 6-1-10.1(d)	326 IAC 15-1-2(a)(7)		
Compliance Demonstration:	Monitoring of Operational Parameters	Compliance Testing for Pb emissions		
PERFORMANCE TESTING				
Parameter/Pollutant to be Tested:		Lead (Pb)		
Testing Method/Analysis:		In accordance with 326 IAC 3-2.1		
Testing Frequency/Schedule:		Every 5 years		
Submittal of Test Results:		w/in 45 days of the test		
COMPLIANCE MONITORING				
Monitoring Description:	Inlet/outlet differential static Pressure on control equipment			Visual Stack Notations
Monitoring Method:	Recording and Reporting			Visual Notation
Monitoring Regulation/Citation:	326 IAC 2-8-5(a)(1)			326 IAC 2-8-5(a)(1)
Monitoring Frequency:	Daily			Daily
Parameter/Pollutant to be Recorded:	Inlet/outlet differential static pressure			Stack Condition as “Normal” or “Above Normal”
Recording Frequency:	Daily			Daily
Submittal Schedule of Reports:	Quarterly reporting			Quarterly reporting
Information in Report:	pressure drop reading			Stack Notations
Reporting Frequency/Submittal:	Quarterly			Quarterly
Additional Comments:				

Table 9

Stack/Vent ID:	**S-13**			
Stack/Vent Dimensions:	Ht: 75 ft	Dia: 0.8 ft	Temp: 70°F	Flow: 1100 ACFM
Emission Unit:				
Date of Construction:	November, 1981			
Alternative Scenario:	None			
Pollution Control Equipment:	Bag Filters (No. 653, 654, & 655)			
General Description of Requirement:	PM10 & PM emission Limits	Pb emission limit		
Numerical Emission Limit:	PM & PM10: 0.022 gr/dscf; 0.200 lbs/hr	Pb: 0.04 lbs/hr		
Regulation/Citation:	326 IAC 6-1-10.1(d)	326 IAC 15-1-2(a)(7)		
Compliance Demonstration:	Monitoring of Operational Parameters	Compliance Testing for Pb emissions		
PERFORMANCE TESTING				
Parameter/Pollutant to be Tested:		Lead (Pb)		
Testing Method/Analysis:		In accordance with 326 IAC 3-2.1		
Testing Frequency/Schedule:		Every 5 years		
Submittal of Test Results:		w/in 45 days of the test		
COMPLIANCE MONITORING				
Monitoring Description:	Inlet/outlet differential static Pressure on control equipment			Visual Stack Notations
Monitoring Method:	Recording and Reporting			Visual Notation
Monitoring Regulation/Citation:	326 IAC 2-8-5(a)(1)			326 IAC 2-8-5(a)(1)
Monitoring Frequency:	Daily			Daily
Parameter/Pollutant to be Recorded:	Inlet/outlet differential static pressure			Stack Condition as “Normal” or “Above Normal”
Recording Frequency:	Daily			Daily
Submittal Schedule of Reports:	Quarterly reporting			Quarterly reporting
Information in Report:	pressure drop reading			Stack Notations
Reporting Frequency/Submittal:	Quarterly			Quarterly
Additional Comments:				

Table 10

Stack/Vent ID:	**S-14**			
Stack/Vent Dimensions:	Ht: 75 ft	Dia: 0.6 ft	Temp: 70°F	Flow: 251 ACFM
Emission Unit:				
Date of Construction:	November, 1981			
Alternative Scenario:	None			
Pollution Control Equipment:	Bag Filter (No. 455)			
General Description of Requirement:	PM10 & PM emission Limits	Pb emission limit		
Numerical Emission Limit:	PM & PM10: 0.022 gr/dscf; 0.200 lbs/hr	Pb: 0.04 lbs/hr		
Regulation/Citation:	326 IAC 6-1-10.1(d)	326 IAC 15-1-2(a)(7)		
Compliance Demonstration:	Monitoring of Operational Parameters	Compliance Testing for Pb emissions		
PERFORMANCE TESTING				
Parameter/Pollutant to be Tested:		Lead (Pb)		
Testing Method/Analysis:		In accordance with 326 IAC 3-2.1		
Testing Frequency/Schedule:		Every 5 years		
Submittal of Test Results:		w/in 45 days of the test		
COMPLIANCE MONITORING				
Monitoring Description:	Inlet/outlet differential static Pressure on control equipment			Visual Stack Notations
Monitoring Method:	Recording and Reporting			Visual Notation
Monitoring Regulation/Citation:	326 IAC 2-8-5(a)(1)			326 IAC 2-8-5(a)(1)
Monitoring Frequency:	Daily			Daily
Parameter/Pollutant to be Recorded:	Inlet/outlet differential static pressure			Stack Condition as “Normal” or “Above Normal”
Recording Frequency:	Daily			Daily
Submittal Schedule of Reports:	Quarterly reporting			Quarterly reporting
Information in Report:	pressure drop reading			Stack Notations
Reporting Frequency/Submittal:	Quarterly			Quarterly
Additional Comments:				

Table 11

Stack/Vent ID:	**S-15**			
Stack/Vent Dimensions:	Ht: 75 ft	Dia: 0.6 ft	Temp: 70°F	Flow: 609 ACFM
Emission Unit:				
Date of Construction:	November, 1981			
Alternative Scenario:	None			
Pollution Control Equipment:	Bag Filter (No. 301)			
General Description of Requirement:	PM10 & PM emission Limits	Pb emission limit		
Numerical Emission Limit:	PM & PM10: 0.022 gr/dscf; 0.200 lbs/hr	Pb: 0.04 lbs/hr		
Regulation/Citation:	326 IAC 6-1-10.1(d)	326 IAC 15-1-2(a)(7)		
Compliance Demonstration:	Monitoring of Operational Parameters	Compliance Testing for Pb emissions		
PERFORMANCE TESTING				
Parameter/Pollutant to be Tested:		Lead (Pb)		
Testing Method/Analysis:		In accordance with 326 IAC 3-2.1		
Testing Frequency/Schedule:		Every 5 years		
Submittal of Test Results:		w/in 45 days of the test		
COMPLIANCE MONITORING				
Monitoring Description:	Inlet/outlet differential static Pressure on control equipment			Visual Stack Notations
Monitoring Method:	Recording and Reporting			Visual Notation
Monitoring Regulation/Citation:	326 IAC 2-8-5(a)(1)			326 IAC 2-8-5(a)(1)
Monitoring Frequency:	Daily			Daily
Parameter/Pollutant to be Recorded:	Inlet/outlet differential static pressure			Stack Condition as “Normal” or “Above Normal”
Recording Frequency:	Daily			Daily
Submittal Schedule of Reports:	Quarterly reporting			Quarterly reporting
Information in Report:	pressure drop reading			Stack Notations
Reporting Frequency/Submittal:	Quarterly			Quarterly
Additional Comments:				

Table 12

Stack/Vent ID:	**S-16**			
Stack/Vent Dimensions:	Ht: 75 ft	Dia: 0.8 ft	Temp: 70°F	Flow: 652 ACFM
Emission Unit:				
Date of Construction:	November, 1981			
Alternative Scenario:	None			
Pollution Control Equipment:	Bag Filters (No. 650, 651, & 652)			
General Description of Requirement:	PM10 & PM emission Limits	Pb emission limit		
Numerical Emission Limit:	PM & PM10: 0.022 gr/dscf; 0.200 lbs/hr	Pb: 0.04 lbs/hr		
Regulation/Citation:	326 IAC 6-1-10.1(d)	326 IAC 15-1-2(a)(7)		
Compliance Demonstration:	Monitoring of Operational Parameters	Compliance Testing for Pb emissions		
PERFORMANCE TESTING				
Parameter/Pollutant to be Tested:		Lead (Pb)		
Testing Method/Analysis:		In accordance with 326 IAC 3-2.1		
Testing Frequency/Schedule:		Every 5 years		
Submittal of Test Results:		w/in 45 days of the test		
COMPLIANCE MONITORING				
Monitoring Description:	Inlet/outlet differential static Pressure on control equipment			Visual Stack Notations
Monitoring Method:	Recording and Reporting			Visual Notation
Monitoring Regulation/Citation:	326 IAC 2-8-5(a)(1)			326 IAC 2-8-5(a)(1)
Monitoring Frequency:	Daily			Daily
Parameter/Pollutant to be Recorded:	Inlet/outlet differential static pressure			Stack Condition as “Normal” or “Above Normal”
Recording Frequency:	Daily			Daily
Submittal Schedule of Reports:	Quarterly reporting			Quarterly reporting
Information in Report:	pressure drop reading			Stack Notations
Reporting Frequency/Submittal:	Quarterly			Quarterly
Additional Comments:				

Table 13

Stack/Vent ID:	**S-17**			
Stack/Vent Dimensions:	Ht: 75 ft	Dia: 2.00 ft	Temp: 70°F	Flow: 10500 ACFM
Emission Unit:				
Date of Construction:	November, 1981			
Alternative Scenario:	None			
Pollution Control Equipment:	Bag Filter (No. 430) & HEPA			
General Description of Requirement:	PM10 & PM emission Limits	Pb emission limit		
Numerical Emission Limit:	PM & PM10: 0.022 gr/dscf; 1.990 lbs/hr	Pb: 0.07 lbs/hr		
Regulation/Citation:	326 IAC 6-1-10.1(d)	326 IAC 15-1-2(a)(7)		
Compliance Demonstration:	Monitoring of Operational Parameters	Compliance Testing for Pb emissions		
PERFORMANCE TESTING				
Parameter/Pollutant to be Tested:		Lead (Pb)		
Testing Method/Analysis:		In accordance with 326 IAC 3-2.1		
Testing Frequency/Schedule:		Every 5 years		
Submittal of Test Results:		w/in 45 days of the test		
COMPLIANCE MONITORING				
Monitoring Description:	Inlet/outlet differential static Pressure on control equipment			Visual Stack Notations
Monitoring Method:	Recording and Reporting			Visual Notation
Monitoring Regulation/Citation:	326 IAC 2-8-5(a)(1)			326 IAC 2-8-5(a)(1)
Monitoring Frequency:	Daily			Daily
RECORD KEEPING				
Parameter/Pollutant to be Recorded:	Inlet/outlet differential static pressure			Stack Condition as “Normal” or “Above Normal”
Recording Frequency:	Daily			Daily
Submittal Schedule of Reports:	Quarterly reporting			Quarterly reporting
REPORTING REQUIREMENTS				
Information in Report:	pressure drop reading			Stack Notations
Reporting Frequency/Submittal:	Quarterly			Quarterly
Additional Comments:				

Table 14

Stack/Vent ID:	**S-18 & S-19**			
Stack/Vent Dimensions:	Ht: 43 ft	Dia: 1.00 ft	Temp: 350°F	Flow: 872 ACFM
Emission Unit:				
Date of Construction:	November, 1981	November, 1981		
Alternative Scenario:	None	None		
Pollution Control Equipment:	None	None		
General Description of Requirement:	PM10 & PM emission Limits	PM10 & PM emission Limits		
Numerical Emission Limit:	PM & PM10: 0.003 lbs/MMBtu; 0.008 lbs/hr	PM & PM10: 0.003 lbs/MMBtu; 0.008 lbs/hr		
Regulation/Citation:	326 IAC 6-1-10.1(h)	326 IAC 6-1-10.1(h)		
Compliance Demonstration:	Monitoring of Operational Parameters	Monitoring of Operational Parameters		
PERFORMANCE TESTING				
Parameter/Pollutant to be Tested:				
Testing Method/Analysis:				
Testing Frequency/Schedule:				
Submittal of Test Results:				
COMPLIANCE MONITORING				
Monitoring Description:	Fuel Usage Recording	Fuel Usage Recording		
Monitoring Method:	Recordkeeping	Recordkeeping		
Monitoring Regulation/Citation:	326 IAC 2-8-5(a)(1)	326 IAC 2-8-5(a)(1)		
Monitoring Frequency:	Monthly	Monthly		
RECORD KEEPING				
Parameter/Pollutant to be Recorded:	Fuel usage	Fuel usage		
Recording Frequency:	Monthly	Monthly		
Submittal Schedule of Reports:	Upon request	Upon request		
REPORTING REQUIREMENTS				
Information in Report:				
Reporting Frequency/Submittal:				
Additional Comments:				

Table 15

Stack/Vent ID:	**S-21**			
Stack/Vent Dimensions:	Ht: 69 ft	Dia: 2 ft	Temp: 160°F	Flow: 8000 ACFM
Emission Unit:				
Date of Construction:	October, 1996			
Alternative Scenario:	Propane Combustion			
Pollution Control Equipment:	HEPA			
General Description of Requirement:	PM10 & PM emission Limits	Pb emission limit		
Numerical Emission Limit:	PM & PM10: 0.022 gr/dscf; 1.290 lbs/hr	Pb: 0.07 lbs/hr		
Regulation/Citation:	Hammond AQC Ordinance	326 IAC 15-1-2(a)(7)		
Compliance Demonstration:	Monitoring of Operational Parameters	Compliance Testing for Pb emissions		
PERFORMANCE TESTING				
Parameter/Pollutant to be Tested:		Lead (Pb)		
Testing Method/Analysis:		In accordance with 326 IAC 3-2.1		
Testing Frequency/Schedule:		Every 5 years		
Submittal of Test Results:		w/in 45 days of the test		
COMPLIANCE MONITORING				
Monitoring Description:	Inlet/outlet differential static Pressure on control equipment			Visual Stack Notations
Monitoring Method:	Recording and Reporting			Visual Notation
Monitoring Regulation/Citation:	326 IAC 2-8-5(a)(1)			326 IAC 2-8-5(a)(1)
Monitoring Frequency:	Daily			Daily
RECORD KEEPING				
Parameter/Pollutant to be Recorded:	Inlet/outlet differential static pressure			Stack Condition as “Normal” or “Above Normal”
Recording Frequency:	Daily			Daily
Submittal Schedule of Reports:	Quarterly reporting			Quarterly reporting
REPORTING REQUIREMENTS				
Information in Report:	pressure drop reading			Stack Notations
Reporting Frequency/Submittal:	Quarterly			Quarterly
Additional Comments:				

Plant ID: 00218

Company Name: Halstab Division of Hammond Group, Inc. (HGI)

Address: 3100 Michigan Street, Hammond, Indiana 46323

Calculations By: Jean Ziga
Debra Malone - Last modified 1/25/01.

NO. OF POINTS: 21
NO. OF SEGMENTS: 31

* 1995 Actuals: As per the 1995 Emission Statement submitted on 4/12/96

NOTES

EF: EMISSION FACTOR
CE: CONTROL EFFICIENCY
MDR: MAXIMUM DESIGN RATE
MDC: MAXIMUM DESIGN CAPACITY
Ts: STACK DISCHARGE TEMPERATURE
UNITS FOR EMISSIONS ARE IN (TPY) EXCEPT WHERE GIVEN

**** SOURCE TOTALS: HALSTAB DIVISION OF HAMMOND GROUP, INC. (HGI) ****

	POTENTIAL TO EMIT (PTE)						PERMIT LIMIT		1995 ACTUAL	
	BEFORE CONTROLS			AFTER CONTROLS					BEFORE	AFTER
POLLUTANT	(lbs/hr)	(lbs/day)	**(TPY)**	(lbs/hr)	(TPY)	(gr/dscf)	(lbs/hr)	(TPY)	CONTROLS	CONTROLS
PM	465.0514	11,161.2328	2,036.9250	1.4905	6.5285	0.3400	10.366	45.401	157.5212	0.3560
PM10	465.0514	11,161.2328	2,036.9250	1.4905	6.5285	0.3400	10.366	45.401	157.5212	0.3560
SOx	0.0087	0.2089	0.0381	0.0087	0.0381	0.0000	0.000	0.000	0.0051	0.0051
NOx	1.4505	34.8132	6.3534	1.4505	6.3534	0.0000	1.451	6.353	0.8500	0.8500
VOC	0.0977	2.3448	0.4279	0.0977	0.4279	0.0000	0.000	0.000	0.0617	0.0617
CO	0.3007	7.2176	1.3172	0.3007	1.3172	0.0000	0.000	0.000	0.1785	0.1785
LEAD	274.7501	6,594.0027	1,203.4055	0.2701	1.1833	0.0000	0.820	3.592	119.0361	0.1167